Exhibit 5 Deposition transcript of Kenneth Nemire

Page 3 Page 1 IN THE UNITED STATES DISTRICT COURT 1 PROCEEDINGS DISTRICT OF SOUTH DAKOTA 2 (Nemire Exhibits 1-2 marked for SOUTHERN DIVISION 3 identification.) 4 (Witness sworn.) Courtney Jayne, Individually and 5 KENNETH NEMIRE, Ph.D., CPE, as Personal Representative of the 6 Called as a witness, being first Estate of M.Z., 7 duly sworn, was examined and Plaintiff, 8 testified as follows: Case No. 4:18-CV-4088-KES 9 **EXAMINATION** City of Sioux Falls. 10 BY MR. SIEFF: Defendant. 11 Q. State your name for the record, please. 12 A. Kenneth Nemire. 13 Q. And you are a -- hold a Ph.D.; is that 14 correct? DEPOSITION OF KENNETH NEMIRE, Ph.D., CPE 15 A. That's correct. VOLUME I, PAGES 1 - 241 16 Q. That Ph.D. is in experimental psychology; is AUGUST 20, 2019 17 that correct? 18 A. Yes. (The following is the deposition of KENNETH 19 Q. You received your Ph.D. from The University NEMIRE, Ph.D., CPE, taken pursuant to Notice of 20 of California in Santa Cruz? Taking Deposition, via videotape, at Robins Kaplan, 21 A. Yes. LLP, 800 LaSalle Avenue, Suite 2800, in the City of 22 Q. You also hold a Bachelor of Sciences in Minneapolis, State of Minnesota, commencing at 23 something called psychobiology; is that correct? approximately 9:03 o'clock a.m., August 20, 2019.) 24 25 Q. You are not a medical doctor; correct? Page 2 Page 4 APPEARANCES: 1 A. That's correct. On Behalf of the Plaintiff: 2 Q. All right. Dr. Nemire, you are testifying 3 Philip Sieff Patricia Yoedicke ROBINS KAPLAN LLP 3 today on behalf of the defendant, the City of Sioux 4 800 LaSalle Avenue 4 Falls; is that correct? 5 5 A. Yes. Minneapolis, Minnesota 55402-2015 6 6 Q. You were hired to do so by the City of Sioux On Behalf of the Defendant: 7 7 Falls and its attorney, Mr. Moore; --James E. Moore 8 A. Yes. В Woods, Fuller, Shultz & Smith, P.C. P.O. Box 5027 9 Q. -- is that correct? 9 300 South Phillips Avenue 10 "Yes"? Suite 300 Sioux Falls, South Dakota 57117-5027 10 11 A. Yes. ALSO PRESENT: 11 Ronald M. Huber, Videographer 12 12 Q. Did you bring your file with you today? 13 13 **EXAMINATION INDEX** A. Yes. WITNESS **EXAMINED BY** 14 PAGE 14 Q. Whereabouts is it? Mr. Sieff Dr. Nemire 15 15 A. In front of me. EXHIBIT INDEX 16 Q. All right. We'll take a look at that in a 16 **EXHIBIT** DESCRIPTION PAGE 17 minute Kenneth Nemire, CV, Oct. 26, 2018, 3 17 Jan. 31, 2019, 7 pgs. Nemire Report, HUMAN FACTORS 18 You're familiar with the deposition process; 18 19 is that correct? ANALYSES OF A FALL AND DROWNING IN 19 A RIVER AT FALLS PARK, SIOUX FALLS, 20 A. Yes. SOUTH DAKOTA, 34 pgs. Photo, 1 pg. 234 cmail, Hall to Kirkus, Kearney and 236 20 21 Q. You've testified approximately 110 times in Leonard, Aug. 26, 2018, with 22 the past four years; does that sound about right? 21 attached photo, 2 pgs. 23 A. Four years? Q. Yes. 23 24 24 25 A. No. 25

	Page 5		Page 7
1	Q. The last 10 years?	1	"Consumer Perception of Portable Ladder Hazards and
2	A. Yeah, I don't know where that number you	2	Warnings."
3	got that number.	3	Q. It dealt with warnings and ladders; correct?
4	Q. Well, sure. Let's take a look at where I	4	A. That's correct.
5	got that number.	5	Q. All right. On March 13, 2017 you were
6	A. Well you said "testified," that would	6	placed under oath in the state of Nevada in a case
7	include deposition as well as trial?	7	known as Yglesias, Y-G-L-E-S-I-A-S is the plaintiff.
8	Q. Yes.	8	and you were asked how many times have you had your
9	Before we get down to the number of	9	deposition taken. Your answer was a hundred maybe.
10	depositions you've given, I will ask you this	10	A. Oh, in my in my career, yes.
11	question: It's fair to say, is it not, sir, that in	11	Q. Starting when?
12	terms of your employment at the moment, approximately	12	A. 1991.
13	100 percent of your work is for lawyers.	13	Q. When was your first deposition?
14	A. A hundred percent of paid work is for	14	A. I don't recall.
15	forensic cases, yes.	15	Q. It's fair to say that you're conversant with
16	Q. You currently work or operate a business	16	the litigation process?
17	called HFE Consulting; is that right?	17	A. At least giving depositions, yes-
18	A, Yes.	18	Q. All right. And you're familiar with the
19	Q. And that's located in the San Francisco	19	obligations of a person who claims to be an expert in
20	area; is that correct?	20	a litigation setting?
21	A. Yes.	21	A. Yes.
22	Q. And you are the president of that	22	Q. In fact you've written articles explaining
23	corporation?	23	how to be an advocate as an expert witness; isn't that
24	A. Yes.	24	true?
25	Q. It is a corporation?	25	A. I wouldn't call it that way. I wouldn't
	Page 6		Page 8
,	-	,	_
1	A. Yes.	1	characterize that any of those articles in that
2	Q. And it's organized and operates under the	3	Way.
3	laws of the State of California; is that correct?	4	Q. Let me ask you this question, Dr. Nemire. You're here today claiming to be an expert and you're
4	A. Yes.	5	retained by the defendant to testify as an expert.
5	Q. You are the sole employee; is that correct?	6	Let me ask you a general question.
6	A. Yes. Q. And the purpose of HFE Consulting is to	7	What do you perceive to be your purpose in
	•	-	this case?
8	provide what is called forensic services of some sort	8	A. To educate the trier of fact about the human
9	for attorneys; is that right?	10	factors issues relevant to this injury incident.
10	A. Consulting services, yes.	1	·
11	Q. What percentage of the work that you do is	11	Q. Define "human factors" for the jury. A. Human factors has to do with designing
12	for lawyers?	13	things that people use so that they can use them
13	A. Paid work is a hundred percent.	14	safely and well. Those things can be anything as
14	Q. All right.	Ì	simple as a toothbrush, or as complicated as a user
15	A. I also do research and write articles for	15 16	interface for a nuclear power plant. In this case the
16	peer-reviewed publications which takes up a	17	things that people use would include, you know, like
17	substantial amount of my time.	18	sidewalks and the natural features of the river
18	Q. When was the last peer-review article that	19	environment, as well as warnings that were in the
19	you wrote and had published; when was that?	20	park.
20	A. There's one that's in press this year, it	21	Q. You view your purpose is to educate the jury
21	will be published in October of this year.	22	regarding the human factors issues that are present in
22	Q. How about before that?	23	this case. Fair?
23	A. Last year. O. What was that article about?	24	A. Yes.
24	•	25	Q. And you have defined for us what you mean by
L25	A. (Witness reviewing documents.) It's titled	ر د ا	Q. This you have defined for its what you mean by

<u> </u>	Page 9	1	Page 11
1	. "human factors"; true?	1	comes to monitoring children, as that may be subsumed
2	A. Yes.	2	within the expertise of child care; correct?
3	Q. You are not here to educate the jury on any	3	A. I would go back to what I just told you
4	other subject other than the human factors issues;	4	Q. All right.
5	correct?	5	A. – about –
6	A. As defined in my report, yes.	6	Q. In your ex The basis
7	Q. And as you've explained it to us today;	7	A. – the level of my expertise as described in
8	A. Yes.	8	my report.
9	O correct?	9	Q. Right. And that's based on your bachelor's
10	So you're not here to provide or to educate	10	degree in psychobiology, which you received in 1980;
11	the jury on medical issues; correct?	11	correct?
12	A. That's correct.	12	A. Yes.
13	Q. Nor governmental issues; right? How a	13	Q. And whatever things you have read since that
14	government operates; how governments make policy	14	relate to the monitoring of children; correct?
15	decisions.	15	A. Sure.
16	A. That's correct.	16	Q. Anything else?
17	Q. You're not here to educate the jury on law	17	A. Based on my expertise as an experimental
18	enforcement issues; correct?	18	psycholog psychologist.
19	A. That's correct.	19	Q. Any other basis for your claimed expertise
20	Q. You're not here to educate the jury on	20	in the monitoring of children?
21	issues pertaining to landscape architecture; true?	21	A. No.
22	A. Unless they are relevant to human factors.	22	Q. Are you able to tell me what you have read
23	Q. Are you an expert in landscape architecture?	23	related to the monitoring of children?
24	A. I am not.	24	A. I've cited some articles in my report.
25	Q. All right. You're not here to educate the	25	There's an article by Barbara Morrongiello. There is
	Page 10		Page 12
1	jury on child-rearing issues; are you, sir?	1	some material in a book called Human Factors:
2	A. As I indicate in my report, I have opinions	2	Designing Environments For Children, and a book on
3	about supervision/monitoring of children by parents	3	developmental psychology by Cole & Cole.
4	and caregiver adult caregivers.	4	Q. Anything else?
5	Q. Do you have expertise that you claim in	5	A. No. That's relevant to this case.
6	child rearing?	6	Q. Was that three
7	A. No.	7	Well I'm asking you what you have read that
8	Q. Do you have expertise that you claim in	8	forms the basis for your claim to be an expert in
9	areas involving child care?	9	child monitoring derived in part from your readings in
10	A. The issues that I would be testifying about	10	that area.
11	as and as indicated in my report have to do with	11	A. Well my
12	research on brain maturation of children and how that	12	Q. If there is additional readings that you
13	affects their perceptional and cognitive abilities,	13	A. Right.
14	and how that means that adult caregivers need to	14	Q believe support your claim of expertise,
15	monitor and supervise young children.	15	I'd appreciate you telling me.
16	Q. Do you claim to be an expert in matters	16	A. I think those readings are sufficient and
17	related to child care?	17	relevant to support my opinions in this case about the
18	A. Regarding the necessity to monitor children,	18	necessity for parental monitoring.
19	which would fall under child care, based on my	19	Q. In the past you have been part of
20	bachelor's in psychobiology and based on my reading of	20	presentations to people in your field about how to
21	literature in child development and supervisory	21	persuasively present expert human factors testimony to
22	control of children.	22	the trier of fact; true?
23	Q. When did you receive your bachelor's degree?	23	A. I don't think I would characterize it as
24	A. 1980.	24	"persuasively." One paper was - or is a panel
25	Q. 1980. So you claim to be an expert, when it	25	presentation. I'd have to

1 Q. Let me 2 A read it here. 3 Q. Let me help you, doctor. 4 A. Okay. 5 (Discussion off the stenographic record.) 6 BY MR. SIEFF: 7 Q. Doctor, in 2011 at the proceedings which 1 8 assume to be a convention of some sort of the Human 9 Factors and Economics [Figonomics] Society you were 10 part of a panel that gave a presentation on "What Do 11 Human Factors/Figonomic Experts Have to Tell Juries 12 That They Don't Know - But May Think They Know"; 13 correct? 14 A. That's correct. 9 Q. And then in 2012, at the same group, the 16 Human Factors and Ergonomics Society Proceedings, you 17 presented, as part of a panel, on Examples of How to 18 Present Human Factors Testimony to the Trier of Fact; 19 true? 10 A. That's correct. 21 Q. And as part of the 2012 panel presentation 22 it was explained to the other human factors sexperts, 23 quote, have an obligation to both our client and our 24 discipline to present sound opinions in a compelling 25 A. I don't remember that quote, but 4 Q. Well why don't 4 Q. Well why don't 4 Q. Do you need a copy of your article? 4 A disagree with it. 5 Sure. 9 Q. Why don't you read what I've highlighted in 9 resented and/or advise the jurors about matters they cannot be expected to understand or discover on their own? 4 A. That's correct. 9 Q. Why don't you read what I've highlighted in 9 deducate and/or advise the jurors about matters they cannot be expected to understand or discover on their own? 4 A. That's correct. 9 Q. Why don't you read what I've highlighted in 9 deducate and/or advise the jurors about matters they cannot be expected to understand or discover on their own? 4 A. That's correct. 9 Q. Well why don't 9 Q. Why don't you read what I've highlighted in 9 deducate and/or advise the jurors about matters they cannot what incert from their own? 4 A. That's correct. 9 Q. Well why don't 9 Q. Why don't you read what I've highlighted in	y le to not
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Q. Let me help you, doctor. A. Okay. (Discussion off the stenographic record.) BY MR. SIEFF: O. Doctor, in 2011 at the proceedings which 1 assume to be a convention of some sort of the Human Factors and Economics [Ergonomics] Society you were part of a panel that gave a presentation on "What Do Human Factors/Ergonomic Experts Have to Tell Juries That They Don't Know - But May Think They Know": A. That's correct. Q. And then in 2012, at the same group, the Human Factors and Ergonomics Society Proceedings, you presented, as part of a panel, on Examples of How to Present Human Factors Testimony to the Trier of Fact; A. That's correct. Q. And as part of the 2012 panel presentation it was explained to the other human factors coperts, discipline to present sound opinions in a compelling Page 14 manner, end quote. True? A. I don't remember that quote, but Q. Well why don't A. — I would not Q. Do you agree with that? Conversely, would you agree that there is not need for you to educate or advise the jurors about matters that they can be expected to understand or discover on their own? A. Well the purpose of an expert is to help juries understand, so the that phrase that the would not be able that phrase that there would not be able that phrase that there would not be able	y le to not
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Human Factors/Ergonomic Experts Have to Tell Juries That They Don't Know - But May Think They Know": Correct? A. That's correct. Q. And then in 2012, at the same group, the Human Factors and Ergonomics Society Proceedings, you presented, as part of a panel, on Examples of How to Present Human Factors Testimony to the Trier of Fact; True? A. That's correct. Q. And as part of the 2012 panel presentation it was explained to the other human factors folks that were at those proceedings that human factors experts, discipline to present sound opinions in a compelling Page 14 manner, end quote. True? A. I don't remember that quote, but Q. Well why don't S. A I would not be able that phrase that the sunderstand of discover on their own I think is understand or discover human factors expert is necessary to educate or advise a juro in Sioux Fall to understand all by themselves? A. I guess I need to learn more about what inean, "understand by themselves." Q. Well A. I believe that a human factors expert is necessary to help the jury understand the relevence of which you were a panel member, said: role of an expert is, quote, to educ	le to iot
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1 5 Q. Willy don't you lead what the highlighted in	he
10 the second paragraph. 10 expected to understand or discover on their own,	
11 A. (Witness reviewing document.) Yes, 11 quote.	=
12 Q. Okay. 12 A. Without the expert opinion of the huma	n
13 A that's what it says. 13 factors expert.	
14 Q. All right. "Compelling manner" is 14 Q. Did I misread what that article says?	
15 synonymous with "in a persuasive manner"; true? 15 A. I would assume that you read it correct	v,
16 A. I disagree. I think "compelling" might be	. ,
17 more engaging, something that might hold the attention 17 Q. All right.	
18 of a jury as opposed to persuading them. 18 A and I am I am trying to clarify wha	t
19 Q. The same article states, quote, the human 19 that sentence	
20 the forensic human factors specialist is an advocate. 20 Q. Would you	
21 Do you agree that you're supposed to be an 21 A says.	
22 advocate here today? 22 Q agree that an expert in human factors is	
23 A. Advocate for human factors, yes. 23 not necessary in order to educate the jury with reg	
24 Q. Okay. And do you agree that part of your 24 to information that is within their common sense?	ard
25 role here today, as a human factors expert, is to 25 A. The problem with the term "common so	ard

Page 19 Page 17 1 1 not correct or suspect in some way. that there is can be common sense, so-called 2 common-sense knowledge that is inaccurate for any 2 Q. Are you able to identify each and every 3 decision with respect to the credibility of witness 3 number of reasons. 4 Q. Is it your testimony that a human factors 4 testimony in this case that you have made? 5 5 expert has greater expertise in common sense than a A. I'm sorry. Ask the question again. juror in Sioux Falls, South Dakota? 6 6 Q. Are you able to tell us each piece of 7 A. Common sense has a number of different 7 witness testimony that you have judged to either be 8 8 definitions. Common sense can be correct, it can be credible or, more importantly, not credible? 9 9 not correct, and there are some issues that might be A. We would have to walk through every 10 10 considered common sensical, but in fact the common statement made and all the transcripts and all the 11 sense understanding of an issue is -- is incorrect, 11 statements to the police. 12 12 Q. So you've -according to scientific evidence. 13 Q. You testified that your purpose here today 13 Is it fair to say that you have made 14 14 determinations as to the credibility of witness is to educate the jury regarding human factors issues 15 15 statements in this case in more than one instance? present in this case. In doing so, would you agree 16 16 A. Yes. that it's necessary and vital for you to respect the 17 17 Q. More than two instances? role of the Court in these proceedings; the judge? 18 18 A. Yes. A. Yes. 19 O. Would you agree that as part of your purpose 19 Q. Many, many instances. 20 in educating the jury regarding human factors issues 20 A. Most likely. 21 21 Q. You have determined the credibility of a present in this case that it's important, if not 22 vital, that you respect the role of the jurors in this 22 witness testimony in this case based upon written 23 case? 23 documentation; namely, the transcripts. Correct? 24 24 A. Well you used the word -- I just picked up A. Yes. 25 25 Q. And respect the role that the law itself may on the word "determined." I've evaluated the Page 18 Page 20 credibility based on statements to the police and in 1 play in this case. 1 2 deposition transcripts. I can't determine the 2 A. Yes. 3 O. You have written a detailed report regarding 3 credibility because there's no way to do that after 4 the fact. 4 your findings in this case and your opinions; true? 5 5 Q. In evaluating the credibility of a witness A. Yes. 6 in this case, did you make any subsequent judgment as 6 Q. And we will get to that in a moment in some 7 to whether or not any particular piece of testimony or 7 detail, but before we do that I have one question for 8 evidence offered by a witness was or was not credible? 8 you. In arriving at your opinions did you make any 9 A. I would have to take case by case. 9 judgements as to the credibility of any of the 10 10 evidence that you reviewed? Q. The answer is either "yes" or "no." Either 11 you made judgements as to the credibility of witness 11 A. Yes. 12 testimony, or you did not. 12 Q. Tell me, which ones? 13 A. I have weighed evidence more strongly than 13 A. I evaluate all the pieces of evidence that 14 14 come before me to evaluate which would be - would be others. O. You have weighed evidence more strongly than 15 useful in me understanding how an incident occurred 15 16 and what might have prevented the incident. 16 others. Whose evidence? Which pieces of evidence? 17 17 A. Yeah, we'd have to go case by case. Q. In the course of conducting your 18 18 investigation, reaching your findings and opinions, Q. Is it fair to say that you weighed a 19 did you make any judgements as to the credibility of 19 considerable amount of evidence and determined whether 20 20 some evidence was more -- weighted more strongly than any testimony of any witness in this matter? 21 A. Yes. 21 other pieces of evidence? 22 O. Who? 22 A. Yeah. I can't address that question in some 23 blanket, general, vague way. We'd have to - We'd 23 A. All the deposition transcripts and all the 24 statements that I read, I always evaluate statements 24 have to go step-by-step through -- you know, you 25 clearly have, you know, some issues that you might 25 or descriptions that may appear correct or may appear

Page 21 Page 23 want to discuss, and we can discuss each of those 1 A. I don't know how many. 2 2 Q. And as well as all the depositions in this point by point if you like. 3 Q. What I'm --3 giant notebook here; right? 4 A. But a blanket statement I cannot make. 4 A. I don't know what's in your notebook. 5 Q. You've testified that you have reviewed 5 Q. Well it's all the deposition exhibits. 6 witness testimony vis-à-vis the transcripts, and you 6 A. I have reviewed the depositions that are 7 have weighed evidence and considered some evidence 7 listed in my report. 8 8 more strongly than other evidence. True? Q. Did you review the deposition exhibits? 9 A. Yes. 9 A. Yes. 10 10 Q. In other words, you have given more Q. Okay. And you had an opportunity, as you've 11 credibility to some pieces of evidence than other 11 testified, to get ready for this deposition today. 12 12 pieces of evidence; true? A. Yes. 13 Q. "Yes"? 13 A. I would not agree with the -- with the term 14 "credibility." I would say that -- that I've -- I've 14 So my question to you, sir, is again, tell 15 me which individual in this -- the case, of all the 15 assigned weight to some pieces of information that 16 have come before me more than other pieces of 16 people who were involved and have been deposed, you 17 17 believe has a false memory. information. That doesn't mean that -- necessarily 18 that one piece of information is more credible. It 18 A. Again we'll have to go case by case. If you 19 19 could be that someone has a false memory of what has have an issue with some of my opinions and want to 20 occurred, so for them it's quite credible, even though 20 examine the support for my opinions and some of that 21 21 support has to do with the statements made or it's a false memory. 22 22 Q. Who in this case do you believe has a false statements omitted in supporting my opinions, then I'm 23 23 memory? happy to do that. But a blanket statement I think 24 24 is -- I don't -- I'm not willing to entertain. A. We'd have to go case by case. 25 25 Q. So when you say you do believe some people Q. Do you believe any person in this case has a Page 22 Page 24 in this case have evidenced false memory, you're 1 false memory? Is that your claim? 1 2 2 unwilling to tell us who those individuals are. A. I think that is a possibility, yes. 3 3 A. Well it's -- we'd need to walk through and Q. Who? 4 4 see what comes out. A. We would have to go case by case. 5 5 Q. And you have given certain pieces of Q. You've had an opportunity to prepare for 6 this deposition; true? 6 evidence more weight than other pieces of evidence; 7 7 A. Yes. 8 8 A. Yes. I would say that, yes. Q. You've had an opportunity to review every 9 9 piece of information that's been generated in this Q. Have you determined that some of the 10 witnesses are more credible in their testimony than 10 case; hasn't it? 11 other witnesses? 11 A. Yes. Q. Has any piece of information that you've 12 A. No. 12 13 O. Not at all? 13 asked from your lawyer been denied to you? 14 14 A. No. A. Not that I'm aware. 15 O. Even the ones who have false memories? 15 Q. Have you asked your attorney -- asked Mr. 16 Moore, who's hired you, for any piece of information 16 17 Q. When were you hired on this case? 17 and not received it? 18 A. I have not. 18 A. (Witness reviewing documents.) May 13 of 19 Q. Okay. So you've had an opportunity to 19 this year. 20 review numerous depositions; yes? 20 Q. After Joellen Gill issued her report; 21 21 A. Yes. 22 Q. And go to the site; yes? 22 A. I don't remember the date of her report. 23 23 Q. The date of her report was April 25th of A. Yes. 24 2018. 24 Q. And review upwards of 36, I believe, 25 25 separate items of documentation; yes? A. Yes, I do remember having a conversation at

some point with Q. Were you Q. Were you Q. Was one of the reasons you were hired was to rebut or refute her opinions? A. Was one of the reasons you were hired was to rebut or refute her opinions? A. Well it was certainly in response to her opinions I was asked to evaluate human factors issues in this case. At some point I was told in general what Ms. Gill had to say about the issues in this case. Q. Well dyou look at your file and tell me how many hours you have into this case? A. Yes. A. Yes. A. Yes. A. I'm in the process of doing that. (Witness reviewing documents.) So far I've billed for about shar? Was that when you were bired? A. It must have received an email on March 19th? A. It probably would have been before May 13th. We had phone conversations. Q. So before May 13th, you were advised of Ms. Gills opinions; correct? A. Yes. I charge travel expenses, plus time that I cannot do anything else. Q. And then do you charge for travel from California? A. I was called by Jordan Felst from Woods a child drowning in a city park, fell in the river, Page 26 and that I would be contacted later by Mr. Moore or Ms. Carpenter. Page 26 A. I was March 19th of 2019. A. I was March 19th of 2019. A. I must have received an email on March 21st saking me to send a copy of my CV and retention a gareement. A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I must have received an email on March 21st A. I did. A. I don't know. A. I don't know. A. Ves. I don't know. A	1		1	Page 27
2 Q. Werly ou:— 3 A. — Mr. Moore about Ms. Gill's report. 4 Q. Was one of the reasons you were hired was to rebut or refute her opinions? 5 rebut or refute her opinions? 6 A. Well it was certainly in response to her opinions I was asked to evaluate human factors issues in this case. At some point I was told in general what Ms. Gill had to say about the issues in this case. At some point I was told in general what Ms. Gill had to say about the issues in this case. When you say at some point you were told about her opinions is this case, when — when was that? Was that when you were hired? 10 A. It probably would have been before May 13th. 11 We had phone conversations. 12 Q. So before May 13th you were advised of Ms. 13 A. Veah. The first contact was March 21st. 14 A. Veah. The first contact was March 21st. 15 Q. A. Was called by Jordan Felst from Woods 15 Fuller, and he told me some general information about a child drowning in a city park, fell in the river, 16 Q. Okay. So that was in March of '18; right? 17 A. That's correct. 18 A. That's correct. 19 Q. Okay. When was your next contact with Mr. 10 Moore's office; right? 11 A. That's correct. 11 Q. Okay. When was your next contact with Mr. 12 Moore's office; right? 13 A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 19 Q. Okay. Did you do that? 10 Q. Okay. Did you do that? 11 Q. Did you ask for a retainer? 12 Q. And you currently bill at four hundred filly. 12 Q. And you currently bill at four hundred filly. 13 A. Forty-five hundred dollars. 14 Q. And you currently bill at four hundred filly. 15 Q. And you currently bill at four hundred filly. 16 A. That's part of the retention agreement, yes. 17 Q. How much may bill a much compact and in the mumber of those swift with the number of hours. 18 A. Veal. I charge travel expenses, plus time that I cannot do anything else. 29 Q. Okay. When was in March of '18; right? 20 Q. Okay. So that was in March of '18; right? 21 A. I must have received an email on March 2		some point with	1	A. I don't know.
A. — Mr. Moore about Ms. Gill's report. Q. Was one of the reasons you were hired was to rebut or refute her opinions? A. Well it was certainly in response to her or refute her opinions? A. Well it was certainly in response to her or opinions I was asked to evaluate human factors issues in this case. At some point I was told in general what Ms. Gill had to say about the issues in this case. Q. When you say at some point you were told about her opinions in this case, when — when was to about her opinions in this case, when — when was to about her opinions in this case, when — when was to about her opinions in this case, when — when was to about her opinions in this case, when — when was to with the number of hours. A. It probably would have been before May 13th. We had phone conversations. Q. Obe fore May 13th. We had phone conversations. Q. Obe fore May 13th. We had phone conversations. Q. Obe fore May 13th. We had phone conversations. Q. Obe fore May 13th. We had phone conversations. Q. How much time, in terms of hours, have you spent preparing for your deposition? A. Yes. I dan't know, five to ten maybe. Q. And you were advised — A. I'm sorry. The first contact was March 21st. 18 A. Yes. Q. And then do you charge for travel from California? A. I was called by Jordan Feist from Woods A. I'm sorry. The first contact was March 20 A. I'm sorry. The first contact was March 21 19th. 22 Q. What were you told on March 19th? 23 A. I was called by Jordan Feist from Woods A. I'm sorry. The first contact was March 24 Fuller, and he told me some general information about a child drowning in a city park, fell in the river, Page 26 1 and that I would be contacted later by Mr. Moore or Ms. Carpenter. Ms. Carpenter. Page 27 A. I was called by Jordan Feist from Woods with Mr. Moore's office; right? A. I was dare the limin have the deposition of the contacted later by Mr. Moore or Mich. Page 28 A. I must have received an email on March 21st saking me to send a copy of my CV and retention agre	2	•	2	
Q. Was one of the reasons you were hired was to rebut or refute her opinions? A. Well it was certainly in response to her opinions I was asked to evaluate human factors issues in this case. At some point I was told in general what Ms. Gill had to say about the issues in this case. At some point you were told about her opinions in this case, when — when was that? Was that when you were hird? A. It probably would have been before May 13th. We had phone conversations. Q. So before May 13th you were advised of Ms. Gill's opinions, correct? A. Yeah. The first contact was March 21st. Q. And you were advised— A. I was called by Jordan Feist from Woods Euller, and he told me some general information about a child drowning in a city park, fell in the river, Page 26 Macarpenter. Q. Okay. So that was in March of '18; right? A. It was March 19th of 2019. A. It was March 19th of 2019. A. It was March 19th of 2019. A. It was you were contacted by someone affiliated with Mr. Moore's office; right? A. That's correct. Q. Okay. When was your next contact with Mr. Moore's office? A. It did. A. It must have received an email on March 12ts asking me to send a copy of my CV and retention agreement. A. It har's part of the retention agreement, yes. Q. How much time, in terms of hours, have you spent preparing for your deposition? A. Yes, I charge travel expenses, plus time that I cannot do anything else. Q. Okay. So we'll call that five hours? And you charge for your time in your deposition today; yes? A. Yes. I think you're on the hook for that. Page 26 A. Was and that I would be contacted later by Mr. Moore or Ms. Carpenter. Q. Okay. So that was in March of '18; right? A. That's correct. Q. Okay. When was your next contact with Mr. Moore's office? A. It was March 19th of 2019. A. It was March 19th of 2019. A. It was March 19th of 2019. A. Yes. Q. And some follow-up work. So somewhere between, by my calculations, at the low one of the fence, for plaintiffs and defendants; true? A. Yes. Q. And in most of those cases you're asked	3		3	
5 rebut or refute her opinions? 5 A. Yes. Q. Would you look at your file and tell me how points in this case. At same point I was slold in general what Ms. Gill had to say about the issues in this case. At same point I was slold in general to a booth the copinions in this case, when when was that? Was that when you were told that? Was that when you were hired? 12 about her opinions in this case, when when was that? Was that when you were hired? 13 take. Ninety? Sound about right? 14 A. It probably would have been before May 13th. 15 We had phone conversations. 16 Q. So before May 13th you were advised of Ms. 16 Gill's opinions; correct? 17 A. Yeah, The first contact was March 21st. 19 Q. And you were advised A. Fm sorry. The first contact was March 21st. 19 Q. What were you told on March 19th? 22 Q. What were you told on March 19th? 23 A. I was called by Jordan Felst from Woods a child drowning in a city park, fell in the river. Page 26 Q. Okay. So that was in March of '18; right? 24 Q. Okay. So that was in March of '18; right? 25 A. Yes. I think you're on the hook for that. Page 28 Q. Okay. So that was in March of '18; right? 26 Q. Okay. When was your next contact with Mr. Moore's office; right? 27 A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 16 A. That's part of the retention agreement, yes. Q. And jou week for a retainer? Q. Okay. Did you do that? A. Forty-five hundred dollars. Q. And you week as a litigation expert for evaluate a situation and write a report, true? As a general proposition? Q. And jou meak for a retainer? Q. And you contactly bill at four hundred fifty Q. And you were contacted by someone affiliated with Mr. Moore's office; right? Q. Okay. Did you do that? Q. Okay. Did you do that? Q. Okay. Did you ask for a retainer? Q. Okay on the mode of years; true? Q. Okay you do that? Q. Okay on the proposition? Q. Okay	4		4	O. Did you bring those with you today?
6 A. Well it was certainty in response to her 7 opinions I was asked to evaluate human factors issues 8 in this case. At some point I was told in general 9 what Ms. Gill had to say about the issues in this 10 case. 11 Q. When you say at some point you were told 12 about her opinions in this case, when when was 13 that? Was that when you were hired? 14 A. It probably would have been before May 13th. 15 We had phone conversations. 16 Q. So before May 13th you were advised of Ms. 16 Gill's opinions, correct? 17 A. Yeah. The first contact was March 21st. 19 Q. And you were advised 19 A. I'm sorry. The first contact was March 21 19th. 22 Q. What were you told on March 19th? 23 A. J. was called by Jordan Felst from Woods 24 Fuller, and he told me some general information about a child drowning in a city park, fell in the river, 25 A. It was March 19th of 2019. 26 Q. Okay. So that was in March of '18; right? 27 A. That's correct. 28 Q. Okay. So that was in March of '18; right? 29 A. That's correct. 20 Q. Okay. When was your next contact with Mr. 21 A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 29 Q. Okay. Did you ask for a retainer? 20 A. Pros-five hundred dollars. 21 Q. And you currently bill at four hundred fifty 20 A. Ot and you contacted by a moth of the cases I am not asked to write a report. 21 Q. Okay. Did you ask for a retainer? 22 A. Pros-five hundred dollars. 23 A. Forty-five hundred dollars. 24 Q. And jou currently bill at four hundred fifty 25 A. I would say wost of the cases I am not asked to write a report.	5		5	
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8 in this case. At some point I was told in general 9 what Ms. Gill had to say about the issues in this 10 case. 11 Q. When you say at some point you were told 12 about her opinions in this case, when — when was 13 that? Was that when you were hird? 14 A. It probably would have been before May 13th. 15 We had phone conversations. 16 Q. So before May 13th you were advised of Ms. 17 Gill's opinions; correct? 18 A. Yeah. The first contact was March 21st. 18 Q. And you were advised — 19 Q. And you were advised of Ms. 19 Q. And you were advised of Ms. 20 A. I'm sorry. The first contact was March 21st. 21 19th. 22 Q. What were you told on March 19th? 23 A. I was called by Jordan Feist from Woods 24 Foller, and he told me some general information about 24 a child drowning in a city park, fell in the river, 25 A. It was March 19th of 2019. 26 Q. Okay. So that was in March of '18; right? 27 A. It was March 19th of 2019. 28 A. It was March 19th of 2019. 39 Q. Okay. So that was your next contact with Mr. 30 Q. Okay. When was your next contact with Mr. 31 Moore's office; right? 32 A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 39 Q. Okay. Did you do that? 40 A. It must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 41 Q. Okay. Did you do that? 42 A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 43 Q. Okay. Did you do that? 44 A. It must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 45 Q. Okay. Did you do that? 46 A. It must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 46 Q. Okay. Did you ask for a retainer? 47 Q. Okay. Did you do that? 48 A. I'm in the process of doing that with the number of hours. 49 A. I'm in the process of four at when was taken to divide by 450 to come up with the number of hours. 40 A. I'm in the process of fours dours, give or take. Ninet	7		7	
what Ms. Gill had to say about the issues in this case. Q. When you say at some point you were told about her opinions in this case, when when was that? Was that when you were hired? A. It probably would have been before May 13th. We had phone conversations. Q. So before May 13th you were advised of Ms. Gill's opinions; correct? A. Yeah. The first contact was March 21st. P. Q. And you were advised A. Pra sorry. The first contact was March 21st. Q. What were you told on March 19th? A. I was called by Jordan Feist from Woods a child drowning in a city park, fell in the river, Ms. Carpenter. Q. Okay. So that was in March of '18; right? A. It was March 19th of 2019. A. It was March 19th of 2019. A. That's correct. Q. Okay. When was your next contact with Mr. Moore's office? A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. Q. Okay. Did you ask for a retainer? A. That's part of the retention agreement, yes. Q. How much was the retainer? A. Thou's part of the retention agreement, yes. Q. And you currently bill at four hundred fifty P. A. Towal called a your of the cases I am not asked to write a report.	8	-	8	• •
10 case. Q. When you say at some point you were told about her opinions in this case, when — when was that? Was that when you were hired? A. It probably would have been before May 13th. We had phone conversations. Q. So before May 13th you were advised of Ms. Gill's opinions; correct? A. Yeah. The first contact was March 21st. Page 26 Q. What were you told on March 19th? A. I was called by Jordan Feist from Woods Fuller, and he told me some general information about a child drowning in a city park, fell in the river, March 672018? A. It was March 19th of 2019. Q. Okay. So that was in March of '18; right? A. It was March 19th of 2019. Q. Olay. When was your next contact with Mr. More's office? A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. A. That's correct. Q. Okay. Did you do that? A. I did. Q. Okay Did you do that? A. That's part of the retention agreement, yes. Q. How much time, in terms of hours, have you take. Ninety? Sound about right? A. Yes. I think you're deposition? A. Yes. I charge travel expenses, plus time that I cannot do anything else. Q. Okay. So we'll call that five hours? And you charge for your time in your deposition today; yes? A. Yes. I think you're on the hook for that. Page 26 Page 28 A. It was March 19th of 2019. Q. Olay. When was your next contact with Mr. More's office? A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. Q. Okay. Did you ask for a retainer? A. I did. Q. Okay. Did you ask for a retainer? A. That's part of the retention agreement, yes. Q. How much was the retainer? A. That's part of the retention agreement, yes. Q. How much was the retainer? A. That's part of the retention agreement, yes. Q. And you currently bill at four hundred fifty D. A. I would say most of the cases I am not asked to write a report.	1		9	•
11 Q. When you say at some point you were told about her opinions in this case, when when was 12 data that? Was that when you were hiref? 14 A. It probably would have been before May 13th. 15 We had phone conversations. 16 Q. So before May 13th you were advised of Ms. 17 Gill's opinions; correct? 18 A. Yeah. The first contact was March 21st. 19 Q. And you were advised 19 Q. And you were advised 20 A. P'm sorry. The first contact was March 21st. 21 19th. 22 Q. What were you told on March 19th? 23 A. I was called by Jordan Feist from Woods 24 Fuller, and he told me some general information about a child drowning in a city park, fell in the river, 25 and that I would be contacted later by Mr. Moore or 2 Ms. Carpenter. 2 Ms. Carpenter. 3 Q. Okay. So that was in March of '18; right? 4 March of 2018? 4 A. I twas March 19th of 2019. 5 Q. Olay. Okay. 6 Q. 2019. Okay. 7 And you were contacted by someone affiliated with Mr. Moore's office; right? 8 A. I twas March 19th of 2019. 9 A. That's correct. 10 Q. Okay. When was your next contact with Mr. Moore's office; right? 11 Moore's office? 12 A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 15 Q. Okay. Did you ask for a retainer? 16 A. I did. 17 Q. Did you ask for a retainer? 18 A. That's part of the retention agreement, yes. 19 Q. And you currently bill at four hundred fifty 20 A. Forty-five hundred dollars. 21 C. A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 22 Q. And in most of those cases you're asked to evaluate a situation and write a report; true? 23 A. That's part of the retention agreement, yes. 24 Q. And you currently bill at four hundred fifty 25 A. Forty-five hundred dollars. 26 A. Forty-five hundred dollars. 27 A. Forty-five hundred dollars. 28 A. Forty-five hundred dollars. 29 A. Forty-five hundred dollars. 30 A. Now you have worked as a littingation expert; true? 31 A. Yes. 32 A. Forty-five hundred dollars. 33 A. Forty-five hundred dol	10		10	
about her opimions in this case, when when was that? Was that when you were hired? A. It probably would have been before May 13th. B. We had phone conversations. Q. So before May 13th you were advised of Ms. Gill's opimions; correct? A. Yeah, I don't know, five to ten maybe. Q. And you were advised A. Yeah, I don't know, five to ten maybe. Q. And you were advised A. I'm sorry. The first contact was March 21st. 19 Q. And you were advised A. I'm sorry. The first contact was March 19 Q. What were you told on March 19th? 20 Q. What were you told on March 19th? 21 19th. 22 Q. What were you told on March 19th? 23 A. I was called by Jordan Feist from Woods 24 Fuller, and he told me some general information about a child drowning in a city park, fell in the river, 3 Q. Okay. So well call that five hours? And you charge for your time in your deposition today; yes? A. Yes. I think you're on the hook for that. Page 26 Page 28 A. Yes. I think you're on the hook for that. Page 28 A. Yes. Q. Okay. And then you You still get paid for it though; right? A. Yes. Q. And some follow-up work. So somewhere between, by my calculations, at the low end, ten hours to twenty hours at 450 dollars an hour to give a deposition. Now you have worked as a litigation expert for a number of years; true? A. Yes. A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. A. That's correct. Q. Okay. Did you do that? A. I did. Q. Did you ask for a retainer? A. Forty-five hundred dollars. Q. And you currently bill at four hundred fifty 20 A. Forty-five hundred dollars. Q. And you currently bill at four hundred fifty 21 to write a report.	11		11	
take. Ninety? Sound about right? A. It probably would have been before May 13th. We had phone conversations. Q. So before May 13th you were advised of Ms. Gill's opinions; correct? A. Yeah. The first contact was March 21st. A. I'm sorry. The first contact was March 21st. 19 Q. And you were advised 10 A. I'm sorry. The first contact was March 21st. 11 Pottle. 21 19th. 22 Q. What were you told on March 19th? 23 A. I was called by Jordan Feist from Woods Fuller, and he told me some general information about a child drowning in a city park, fell in the river, Page 26 1 and that I would be contacted later by Mr. Moore or Ms. Carpenter. Q. Okay. So that was in March of '18; right? A. I was March 19th of 2019. Q. 2019. Okay. A. It was March 19th of 2019. Q. Okay. When was your next contact with Mr. Moore's office; right? A. That's correct. Q. Okay. When was your next contact with Mr. Moore's office? A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. Q. Okay. Did you do that? A. I did. Q. Did you ask for a retainer? A. That's part of the retention agreement, yes. Q. And you currently bill at four hundred fifty 18 A. That's part of the retention agreement, yes. Q. And you currently bill at four hundred fifty 18 A. That's part of the retention agreement, yes. Q. And you currently bill at four hundred fifty 19 A. Sterv. Whatever that math is. Q. How much time, in terms of hours, have you spent when the me, when we have he was upon and them, in terms of hours, have you spent reparing for your deposition? A. Yeah, I don't know, five to ten maybe. A. Yes. I charge travel expenses, plus time that I cannot do anything else. Q. Okay. So we'll call that five hours? And you charge for your time in your deposition today; yes? A. Yes. I think you're on the hook for that. Page 28 Q. Okay. And then you You still get paid for it though; right? A. Yes. Q. And some follow-up work. So somewhere between, by my calculations, at the low	12		12	
14 A. It probably would have been before May 13th. 15 We had phone conversations. Q. So before May 13th you were advised of Ms. 16 Gilfs opinions; correct? 17 Gilfs opinions; correct? 18 A. Yeah. The first contact was March 21st. 19 Q. And you were advised — 19 Q. And you were advised — 20 A. I'm sorry. The first contact was March 21 19th. 22 Q. What were you told on March 19th? 23 A. I was called by Jordan Felst from Woods 24 Fuller, and he told me some general information about a child drowning in a city park, fell in the river, 25 and that I would be contacted later by Mr. Moore or 26 Ms. Carpenter. 27 Q. Okay. So that was in March of '18; right? 28 A. I twas March 19th of 2019. 29 A. That's correct. 20 Q. Okay. So that was in March of '18; right? 30 Q. 2019. Okay. 31 A. That's correct. 41 Moore's office; right? 42 A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. 43 Q. Okay. Did you do that? 44 A. Sure. Whatever that math is. 45 Q. How much time, in terms of hours, have you spent preparing for your deposition? 46 A. I was called by Jordan Felst from Woods 47 A. Yes. I charge travel expenses, plus time that I cannot do anything else. 49 Q. Okay. So we'll call that five hours? And you charge for your time in your deposition today; yes? 40 A. Yes. I think you're on the hook for that. 41 Yes. 41 Yes. I think you're on the hook for that. 42 Yes. 43 A. Yes. I think you're on the hook for that. 44 Yes. 45 A. Yes. I think you're on the hook for that. 45 Q. Okay. And then you — 46 Yes. I think you're on the hook for that. 46 Yes. I think you're on the hook for that. 47 A. Yes. 48 Yes. I think you're on the hook for that. 49 Q. Okay. And then you — 49 You still get paid for it though; right? 40 A. Yes. 41 Yes. 42 Q. Okay. And some follow-up work. 43 So somewhere between, by my calculations, at the low end, ten hours to twenty hours at 450 dollars an hour to give a deposition. 41 Now you have worked as a litigation expert; true? 42 A. Yes. 43 Q. And you've done w	13		13	
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And you were contacted by someone affiliated with Mr. Moore's office; right? A. That's correct. Q. Okay. When was your next contact with Mr. Moore's office? A. I must have received an email on March 21st asking me to send a copy of my CV and retention agreement. Q. Okay. Did you do that? A. I did. Q. Did you ask for a retainer? A. That's part of the retention agreement, yes. P. A. Forty-five hundred dollars. Q. And you were a deposition. Now you have worked as a litigation expert P. A. Ves. Q. And you've done well over a hundred cases as a litigation expert; true? A. Yes. Q. For both sides of the fence, for plaintiffs and defendants; true? A. Yes. Q. And in most of those cases you're asked to evaluate a situation and write a report; true? As a general proposition? A. Forty-five hundred dollars. Q. And you currently bill at four hundred fifty A. I would say most of the cases I am not asked to write a report.	5	A. It was March 19th of 2019.	5	So somewhere between, by my calculations, at
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9 for a number of years; true? 10 Q. Okay. When was your next contact with Mr. 11 Moore's office? 12 A. I must have received an email on March 21st 13 asking me to send a copy of my CV and retention 14 agreement. 15 Q. Okay. Did you do that? 16 A. I did. 17 Q. And you've done well over a hundred cases as 18 alitigation expert; true? 19 A. Yes. 10 A. Yes. 11 Q. For both sides of the fence, for plaintiffs 11 and defendants; true? 12 and defendants; true? 13 A. Yes. 14 Q. For both sides of the fence, for plaintiffs 15 and defendants; true? 16 A. Yes. 17 Q. And in most of those cases you're asked to 18 evaluate a situation and write a report; true? As a 19 Q. How much was the retainer? 19 general proposition? 20 A. Forty-five hundred dollars. 20 A. I would say most of the cases I am not asked 21 Q. And you currently bill at four hundred fifty 21 to write a report.	7	And you were contacted by someone affiliated	7	an hour to give a deposition.
10 Q. Okay. When was your next contact with Mr. 11 Moore's office? 12 A. I must have received an email on March 21st 13 asking me to send a copy of my CV and retention 14 agreement. 15 Q. Okay. Did you do that? 16 A. I did. 17 Q. For both sides of the fence, for plaintiffs 18 and defendants; true? 19 A. I did. 10 A. Yes. 11 Q. For both sides of the fence, for plaintiffs 11 and defendants; true? 12 and defendants; true? 13 A. Yes. 14 Q. For both sides of the fence, for plaintiffs 15 and defendants; true? 16 A. Yes. 17 Q. And in most of those cases you're asked to 18 A. That's part of the retention agreement, yes. 19 Q. And in most of those cases you're asked to 19 Q. How much was the retainer? 19 general proposition? 20 A. Forty-five hundred dollars. 20 A. I would say most of the cases I am not asked 21 Q. And you currently bill at four hundred fifty 21 to write a report.	8	with Mr. Moore's office; right?	8	Now you have worked as a litigation expert
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15 Q. Okay. Did you do that? 16 A. I did. 17 Q. Did you ask for a retainer? 18 A. That's part of the retention agreement, yes. 19 Q. How much was the retainer? 20 A. Forty-five hundred dollars. 21 Q. And you currently bill at four hundred fifty 15 and defendants; true? A. Yes. 17 Q. And in most of those cases you're asked to 18 evaluate a situation and write a report; true? As a 19 general proposition? 20 A. I would say most of the cases I am not asked 21 to write a report.	13	asking me to send a copy of my CV and retention	13	A. Yes.
16 A. I did. 17 Q. Did you ask for a retainer? 18 A. That's part of the retention agreement, yes. 19 Q. How much was the retainer? 20 A. Forty-five hundred dollars. 21 Q. And you currently bill at four hundred fifty 21 to write a report.	14	agreement.	14	Q. For both sides of the fence, for plaintiffs
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	20	*	20	-
22 an hour: is that right? 22 O. In many of your cases you're asked to write	21	Q. And you currently bill at four hundred fifty	21	to write a report.
	22	an hour; is that right?	22	Q. In many of your cases you're asked to write
23 A. That's correct. 23 a report?	23		23	a report?
24 Q. How many hours do you have so far into this 24 A. I have written many reports, yes.	24	Q. How many hours do you have so far into this	24	
	25	case?	25	Q. And then asked to give a deposition or some

l	Page 29		Page 31
1	form of testimony.	1	Q. And that you currently I believe live in
2	A. At some point the case might go that far,	2	Campbell, California, or is that your office?
3	yes.	3	A. That's the office.
4	Q. It's fair to say, isn't it, that if you	4	Q. Where do you live?
5	write a report or reach opinions that are adverse to	5	A. Yeah, that's personal information
6	the party that has hired you, you're not going to be	6	Q. All right.
7	giving a deposition in that case; are you?	7	A that I don't provide in depositions.
8	A. I have a vague recollection that there have	8	Q. Do you live in the San Francis
9	been times where, you know, I have had opinions that	9	Sure.
10	were consistent with my client's theory of the case,	10	Do you live in the San Francisco area?
11	and some that were not consistent and still went	11	A. Yes.
12	forward to give a deposition.	12	Q. All right. Are you married, sir?
13	Q. It's financially advantageous to you and	13	A. Again, that's personal information.
14	your corporation for you to reach opinions that are	14	Q. Do you have children?
15	favorable to the party representing you as that may	1.5	A. Personal information.
16	lead to additional work on a case; true?	16	Q. I think that whether you have children or
17	A. I guess I don't like the implications of	17	not might be relevant to expertise in raising
1.8	what you have said.	8.1	children, so I'm going to ask you again.
19	Q. It's a simple question.	19	Do you have children?
20	A. There have been	20	A. And as I said, my expertise regarding
21	Well, yes. There have been a number of	21	monitoring has to do with reviewing research
22	times when I've told potential clients that I cannot	22	literature and on brain maturation and research on
23	help them because from their description of the case 1	2.3	injuries resulting from lack of parental supervision,
24	did not think that I could help them. You know, based	24	et cetera.
25	on science and research I didn't feel as if I could	25	Q. So under PROFESSIONAL EXPERIENCE we have a
	Page 30		Page 32
1	help them with their case and so did not take the	1	heading for Forensic Human Factors Consulting; right?
2	case.	! -	
		2	A. Yes.
3	Q. Putting in front of you what's been marked	3	Q. And underneath that it says: "Human factors
3 4	as Nemire Exhibit 1, this was a document provided to	3	Q. And underneath that it says: "Human factors consulting for litigation support, both plaintiff and
i	as Nemire Exhibit 1, this was a document provided to me by defense counsel. Would you agree that this is	3 4 5	Q. And underneath that it says: "Human factors consulting for litigation support, both plaintiff and defense." That's, in essence, litigation work; right?
4 5 6	as Nemire Exhibit 1, this was a document provided to me by defense counsel. Would you agree that this is what is called a curriculum vitae, or some may call it	3 4 5 6	 Q. And underneath that it says: "Human factors consulting for litigation support, both plaintiff and defense." That's, in essence, litigation work; right? A. That's correct.
4 5	as Nemire Exhibit 1, this was a document provided to me by defense counsel. Would you agree that this is what is called a curriculum vitae, or some may call it a resume, others may call it a detailed recitation of	3 4 5	 Q. And underneath that it says: "Human factors consulting for litigation support, both plaintiff and defense." That's, in essence, litigation work; right? A. That's correct. Q. Court work; right? I mean for
4 5 6 7 8	as Nemire Exhibit 1, this was a document provided to me by defense counsel. Would you agree that this is what is called a curriculum vitae, or some may call it a resume, others may call it a detailed recitation of your experience and background?	3 4 5 6 7 8	 Q. And underneath that it says: "Human factors consulting for litigation support, both plaintiff and defense." That's, in essence, litigation work; right? A. That's correct. Q. Court work; right? I mean for A. Very few of my cases go to trial.
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Page 33 Page 35 1 A. Okay. possibilities, but it's not possible to determine 2 Q. And you list a number of specialties. 2 which of those two occurred. 3 3 MR. SIEFF: I will move to strike that 4 Q. Okay. Human factors/ergonomics; human 4 answer as nonresponsive. 5 performance/information processing; lighting, 5 I will repose the question. And Debby, if 6 visibility, conspicuity; driver and pedestrian 6 you would be so kind as to read it to Dr. Nemire. 7 7 perception and behavior; perception-response time; (Record read by the reporter from 8 8 visual-motor coordination; slip, trip, misstep, falls; Page 34, Lines 15 to 19.) 9 product design, liability (including medical, 9 A. Again, no. It's not possible to determine 10 consumer, construction products); warnings, signs, 10 if it's more likely or not that she tripped, and it's 11 interactions; human-machine interaction; 11 not lik -- it's not possible to determine that it's 12 control/display layout; and safety. 12 most likely or not that she took an air step. 13 13 You claim expertise in all of those areas; Q. You had an opportunity to review your report 14 is that correct? 14 that you authored before coming in here today? 15 15 A. Yes. 16 Q. In the past you've worked, according to your 16 Q. And in fact you did review it? 17 CV, on cases involving falls, warnings, workplace 17 A. Yes. 18 incidents, products liability, vehicle incidents and 18 Q. And in your report you state that all of 19 human-machine interaction. 19 your opinions or conclusions are final to a reasonable 20 Are there any broad categories of cases that 20 degree of scientific certainty. 21 you've worked on that you feel relevant to tell us 21 A. Yes. 22 about today that would be germane to -- to this case? 22 Q. Those are your words. 23 A. I have had cases that's similar; children 23 A. Later on it says I have the -- reserve the 24 falling down utility holes, you know, that still falls 24 right to amend my opinions, you know, should other 25 under -- falls under the category of trip, slip and information come forward. Page 34 Page 36 1 falls, but those are the broad categories of cases. 1 Q. All right. I'll ask you this broad 2 Q. Just so the jury is clear, you're not 2 question: Are --3 3 claiming that Maggie tripped and fell in this case; Have any of the opinions that you've 4 are you? 4 expressed in your report been amended, or do you 5 A. I don't think anybody knows. 5 intend on amending them today? 6 6 Q. I'm asking you are you making that claim, A. Yeah, I don't recall right now whether I 7 that she tripped and fell into the water? 7 mentioned the possibility of a trip or - Oh, I did 8 A. I think it's a possibility, yes. 8 mention that the rocks posed a trip hazard, but I 9 9 Q. Okay. Based on what? don't believe my report specifies one way or the other 10 A. The - The uneven surface of the top of the 10 whether it was a air step or a trip and fall. 11 canyon wall, the direction of forward movement 11 Q. Isn't it true that your report does not 12 described by Jeremy as he watched Maggie fall into the 12 state that you believe, to a reasonable degree of 13 river are consistent with a trip and fall. 13 scientific certainty, that it is more likely than not 14 Q. Okay. Are --14 that Maggie Zaiger tripped and fell into the river? 15 15 Will you be testifying, or is it your A. I'm sorry. What's the question again? 16 16 intention to testify, to a reasonable degree of Q. Isn't that true? 17 scientific certainty, that it is more likely than not 17 Isn't it true that nowhere in your report do 18 that Maggie Zaiger tripped and fell into the water on 18 you state that it is your opinion that Maggie Zaiger 19 19 March 18th, 2018? tripped and fell into the water? 20 A. I think the two most likely scenarios are 20 A. (Witness reviewing documents.) Yeah, I did 21 that she tripped and fell, or she took what's called 21 not address the mechanism of fall in the report 22 22 an air step. She stepped into the foam, perhaps because the report was addressing Ms. Gill's opinions. 23 believing that there was a rock surface underneath and 23 Q. So you were retained simply to testify that 24 not -- not having any solid, stable surface to step on 24 the expert who has been retained by Maggie's mother and then she fell. So those are the two most likely 25 was wrong; is that right?

Page 37 Page 39 1 A. No. 1 chance that it's not true. So that of course leaves 2 Q. Okay. Now isn't it true that in your field, 2 open the possibility that those results are not 3 people with the exact same credentials and experience 3 accurate just based on statistical probability. 4 as you have, or perhaps even more, may disagree with 4 Q. According to --5 5 your opinions on any matter involving human factors? A. Now I've forgotten your question. 6 I mean, that's a -б Q. According to Exhibit 1, which is your CV, in 7 A. What's the question again? 7 2015, '16, '17, '18 and through part of '19 you 8 8 testified 22 times. Q. -- fair statement. 9 9 Don't people in your field disagree A. Okay. frequently with each other? 10 10 Q. All right? And we know you've testified more than that 11 A. Well --11 12 Q. In other words, human factors experts can 12 and have worked on more cases than that; true? 13 reach different conclusions about a matter involving 13 A. Yes. 14 14 Q. All right. And your company is a forensic human factors. 15 15 human factors consulting firm; correct? I mean, A. I can agree with that statement. 16 Q. All right. And you have seen that happen 16 that's what you do. 17 before with some regularity in your field. 17 A. That's the paid work that the company does īs --18 A. Certainly in litigation there are typically 18 19 19 Q. Sure. human factors experts on both sides of the case. 20 Q. And even in academia, people with expertise 20 A. -- in forensics, yes. 21 21 Q. Sure. disagree; true? 22 Part of HFE Consulting, according to your 22 A. People with expertise can disagree about 23 23 website, is geared towards providing forensic human some things, yes. 24 24 Q. Well aren't there plenty of examples in the factors consulting. 25 world today of people with scientific degrees and 25 A. That's correct. Page 38 Page 40 Q. "Forensic" being, for those who might not 1 background disagreeing about things? 1 2 2 know what that term means, relating or denotating the A. Sure. 3 Q. Like whether there's global warming, isn't 3 application of scientific methods and techniques to an that something that's people with claimed expertise 4 investigation. 5 5 A. I'm sorry, say that again. disagree upon? 6 6 O. Sure. A. Well 97 percent of scientists agree that 7 there is global warming, there's 3 percent that do 7 Forensic --8 8 The definition of "forensic" is relating to 9 Q. Wasn't there a --9 or denotating the application of scientific methods 10 10 and techniques to an investigation. A. So there's certainly -- yes, there is 11 11 A. Yes. 12 Q. Wasn't there a point in time when 97 percent 12 Q. You agree with that definition. 13 of learned people agreed the world was flat? 13 14 A. Yes, that happened. 14 O. And you agree that that's how a forensic 15 Q. All right. The point being, people who are 15 human factors investigation should be conducted. 16 experts can disagree and still have expertise in their 16 17 Q. Applying scientific methods and techniques 17 field; yes? 18 18 to whatever it is you're investigating. A. That's certainly possible, yes. 19 Q. Your field is not a science like mathematics 19 A. And scientific reasoning and -- Yes. And 20 where there is verifiable, quantifiable ways to 20 based on scientific research --21 determine the accuracy of an opinion. 21 Q. Okay. 22 A. Human factors is based on research, and in 22 A. -- which uses the scientific method. 23 conducting research the results are evaluated based on 23 Q. Now in the cases we know you've testified in 24 24 the past few years, the 22 or so, those were all statistical principles, and the -- some results are 25 accepted as true if there's five percent or less 25 forensic human factors investigations and evaluations;

Page 43 Page 41 right? 1 Q. Okay. You both have experience and 1 background in the sciences, you can't both be correct 2 2 A. Yes. 3 Q. So out of these 22 or so that you have done 3 at the same time. So my question to you, sir, is 4 in the last five years, how many times were you --4 this: 5 5 were your opinions right? Do you know? Is there a known and scientifically accepted 6 A. It's -- It --6 method for quantifying or determining the error rate 7 7 We typically can't know whether an opinion of a litigation forensic human factors expert's 8 8 opinions in the litigation context? is right or not, just have to go with the research and 9 9 evaluate the evidence and indicate, you know, whether A. I think the issue here in comparing Ms. 10 something most likely or not occurred. 10 Gill's opinions with mine is that I use scientific 11 11 research to support my opinions and she does not. Q. Sure. 12 12 In other words, there's no way to quantify, Q. That we'll talk about. 13 13 in real terms, whether your opinion is right or wrong. Is there a way to quantify an error rate as 14 14 to the opinions you've expressed in prior cases or A. Well I always base my opinions on scientific 15 15 research. Scientific research is typically, you know, 16 accurate, as I said, within five percent. Some 16 A. Well opinions in a prior case, there - as 17 17 research, such as warnings, indicates that people, you in this case, there are many different opinions. So, 18 18 know, pay attention to warnings, say, 60 percent of you know, if I have ten opinions in this case, one of 19 19 them may not be accurate based on actual events. That the time or 90 percent of the time, which would 20 20 would still indicate that overall, you know, my indicate maybe there's 10 percent of the time people 21 are not paying attention to warnings. So if I believe 21 opinions in this case were accurate and has a low 22 22 that a warning is sufficient and adequate to encourage error rate. 23 23 someone to notice, read, understand and follow that You'd have to do a similar analyses across 24 warning, it's - 90 percent of the people might follow 24 all the cases and all of Ms. Gill's cases, but there's 25 25 no way of knowing what actually happened unless there that warning, but - but there is always that 10 Page 44 Page 42 1 is video evidence. 1 percent that may not notice it for whatever reason, or 2 2 Q. In this particular case, sir, you have decide not to follow it. 3 3 Q. Do -- Do you know if there has -rendered opinions that have -- may have important 4 Have you ever done an analysis looking 4 consequences; true? 5 5 backwards as to whether or not the opinions you have A. Yes. 6 6 rendered in prior cases have been proven to be Q. They may have financial consequences. 7 7 accurate and correct, or wrong? 8 8 Q. They may have deep and serious emotional and A. Yeah, there's no way of knowing that. 9 9 Q. There's no way to quantify an error rate for lasting psychological consequences for people; true? 10 A. Yes. 10 your opinions; true? 11 11 Q. And it's your testimony that some of your A. Well as I said, I base my opinions on 12 scientific research and so it's more likely than not 12 opinions may not be right and others may. Is that 13 13 that my opinions are correct, but there's always the true? 14 possibility that one of those opinions is not correct 14 A. That's always the possibility, --15 Q. Right. 15 just because of the nature of statistics and human 16 A. -- just as with Ms. Gill's opinions. 16 behavior. 17 17 Q. And you understand that this is a very Q. Well, sir, you have opinions in this case that you claim are more likely than not correct; true? 18 serious matter we're dealing with here. 18 19 19 20 Q. Dr. Gill has opinions in this case --20 Q. And everything you have done up till now, 21 A. Ms. Gill. 21 according to your testimony, is based on applying the 22 concepts of forensic human factors techniques and the 22 Q. Ms. Gill. Apologize. 23 application of scientific methods and techniques to an 23 -- in this case which she believes are more 24 likely than not correct; true? 24 investigation; is that right? 25 25 A. That's what she says, yes. A. And relying on research that has used the

1	Page 45		Page 47
1	scientific method.	1	A. As I said, they rarely occur.
2	Q. Sure.	2	Q. So, Dr. Nemire, your website indicates that
3	And the body of research in the field of	3	you've been qualified as an expert in state courts,
4	human factors is extensive; is it not?	4	and that's an accurate statement; true?
5	A. Yes.	5	A. That's correct.
6	Q. And in fact the book the textbook that	6	Q. And you've also been qualified as an expert
7	you referenced earlier; do you recall talking about a	7	in federal courts; true?
8	textbook?	8	A. That's correct.
9	A. I talked about several textbooks.	9	Q. You've also been disqualified as an expert
10	Q. These textbooks you're talking about are	10	in state courts; true?
11	are big and dense; yes?	11	A. That's not correct.
12	A. Yes.	12	Q. You've been disqualified as an expert in
13	Q. And isn't it true that the field of human	13	federal courts; true?
14	factors is an evolving field?	14	A. That's not correct.
15	A. Yes.	15	Q. All right. We will come back to that.
16	Q. And that opinions that may be universally	16	A. Yeah.
17	shared or held by those in the human factors field may	17	Q. It's your testimony that proposed
18	later turn out to be changed, or modified, or altered	18	You're testifying under oath today that
19	and no longer held to be the standard within that	19	testimony that you have proposed to give as an expert
20	field?	20	has never been rejected or disqualified by a federal
21	A. That is the nature of science, yes.	21	or state court in the United States.
22	Q. But it's true in your field; isn't it?	22	A. That's true.
23	A. Human factors is a science, as is	23	Q. Are you familiar with a case entitled Weiss
24	experimental psychology, and so, as in all sciences,	24	v. Holland American Line?
25	that would be true.	25	A. Yes.
	Page 46		Page 48
1	Q. So it's fair to say that something that	1	Q. You were retained as an expert for the
2	research claimed to be true in the human factors field	2	plaintiff in that case?
3	in, say, 1990, may have already been disproven, or may	3	A. Yes.
4	later be disproven to be untrue. That's an accurate	4	Q. Whose name was Diane Weiss or Weiss, I don't
5	statement; isn't it?	5	know how she pronounces it.
6	A. Well	6	A. Yes.
7	Q. In fact it happens all the time; doesn't it?		
		7	Q. And that was venued in the United States
8	A. I think the research that I have used to	8	Q. And that was venued in the United States District Court, the Western District of Washington in
9	support my opinions, you know, may be modified,	8	Q. And that was venued in the United States District Court, the Western District of Washington in Scattle; true?
9 10	support my opinions, you know, may be modified, standards may be modified. There's always research	8 9 10	Q. And that was venued in the United States District Court, the Western District of Washington in Scattle; true? A. Yes.
9 10 11	support my opinions, you know, may be modified, standards may be modified. There's always research about how you know, what type of warning might be	8 9 10 11	Q. And that was venued in the United States District Court, the Western District of Washington in Scattle; true? A. Yes. Q. And in that case Ms. Weiss, who was then 69
9 10 11 12	support my opinions, you know, may be modified, standards may be modified. There's always research about how you know, what type of warning might be more effective; so yes, the field evolves.	8 9 10 11 12	Q. And that was venued in the United States District Court, the Western District of Washington in Scattle; true? A. Yes. Q. And in that case Ms. Weiss, who was then 69 years old and a veteran of cruise ships, was on a
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9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	support my opinions, you know, may be modified, standards may be modified. There's always research about how you know, what type of warning might be more effective; so yes, the field evolves. I don't know that I would agree with the characterization that most or many of those issues could be in disagreement in ten years. Human factors is a incremental science, it's not like physics where you might have revolutions in thought about how something occurs. Experimental psychology is also an incremental science. There's typically not any revolutionary changes There may be two evolutionary changes in understanding how the brain works in a couple thousand years of of trying to understand how the brain works. So revolutions like what you are	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. And that was venued in the United States District Court, the Western District of Washington in Scattle; true? A. Yes. Q. And in that case Ms. Weiss, who was then 69 years old and a veteran of cruise ships, was on a Holland America Line vessel from Fort Lauderdale Florida; true? A. I remember it was a cruise ship. I don't remember Q. Sure. A origin or destination. Q. And she was walking on the upper walking deck and the wind began to pick up and became windy enough that there were some whitecaps and whatnot on the sea, and at some point in time the vessel was pitching and rolling and she was injured is the sum
9 10 11 12 13 14 15 16 17 18 19 20 21 22	support my opinions, you know, may be modified, standards may be modified. There's always research about how you know, what type of warning might be more effective; so yes, the field evolves. I don't know that I would agree with the characterization that most or many of those issues could be in disagreement in ten years. Human factors is a incremental science, it's not like physics where you might have revolutions in thought about how something occurs. Experimental psychology is also an incremental science. There's typically not any revolutionary changes There may be two evolutionary changes in understanding how the brain works in a couple thousand years of of trying to understand	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And that was venued in the United States District Court, the Western District of Washington in Scattle; true? A. Yes. Q. And in that case Ms. Weiss, who was then 69 years old and a veteran of cruise ships, was on a Holland America Line vessel from Fort Lauderdale Florida; true? A. I remember it was a cruise ship. I don't remember Q. Sure. A origin or destination. Q. And she was walking on the upper walking deck and the wind began to pick up and became windy enough that there were some whitecaps and whatnot on the sea, and at some point in time the vessel was

Page 51 Page 49 A. - that refers to that one declaration that 1 Q. And you were prepared to testify that the 1 2 cruise ship -- you were going to testify in the 2 was not accepted. I wrote a second declaration which 3 3 particular context of cruise ship safety and charity was accepted, --4 4 walk risk management, as Ms. Weiss was involved in a Q. Isn't it true --5 charity walk at that time. 5 A. - and testified to those same issues in 6 A. She was, yes. 6 court. 7 7 Q. All right. Isn't it true that the District Q. Isn't it true that later -- in a later 8 8 motion, the -- Well, I'll withdraw that. Court in Washington, the Federal District Court found 9 9 Were you retained in a case called Blomgren that you'd failed to substantiate that you were 10 10 versus Town Square Las Vegas? qualified to opine on the context of cruise ship 11 11 A. Yes. safety or charity walk risk management? 12 12 A. No. There was a problem with the Q. In that case isn't it true you were 13 13 precluded from testifying that the defendant breached declaration, but I was -- I testified in court and 14 14 its duty of care as it relates to the plaintiff's testified to a number of issues at court. I don't 15 15 injuries, or was otherwise negligent? remember which issues. 16 Q. Isn't it true that para -- that four of your 16 A. I don't even recall giving a deposition in 17 declarations, your opinions, were stricken by the 17 that case. 18 18 federal court in that case? Q. Were you precluded from testifying that a 19 A. Four of my declarations? 19 party breached its duty of care in the case of 20 Q. Yes. Paragraphs 4 through 8 of your 20 Blomgren versus Town Square Las Vegas? 21 21 A. If that is true, I was not made aware of it. declaration. 22 22 Q. Were you retained in a case called Morrow A. Oh, well that's the declaration. The issue 23 with that declaration was I got a call the day --23 versus La Pinata of Alameda? 24 24 Q. I just asked you a simple question. A. I think that was a fall on a ramp at a 25 25 A. Yes. restaurant. I gave a deposition in that case. Page 50 Page 52 1 Q. Were paragraphs 4 through 8 stricken by the 1 Q. Isn't it true that the Court -- the judge in 2 2 federal court? that case ruled that your testimony should be 3 A. Well I think -- I think that entire 3 excluded? 4 declaration was not allowed and then I was allowed to A. If that's true, I was not made aware of it. 5 5 Q. Were you retained in Kurz, K-U-R-Z, versus -- I actually wrote a new declaration and that was 6 accepted by the court and I was allowed to testify in 6 Santa Clara Valley Transport? 7 7 A. That doesn't ring a bell. 8 8 Q. Isn't it true that the Federal District Q. A case involving a alleged left turn by a --9 9 Court in that case wrote that your report lacks an by the plaintiff's car into a light rail train? 10 10 adequate basis in facts or data for the conclusions A. Oh, that was the off-duty police officer. 11 that he draws regarding safety concerns for charity 11 Q. Isn't it true that the court in that case 12 12 refused to consider your testimony and excluded it? walks as opposed to normal perambulation, the 13 foreseeable physiological consequences of the On Deck 13 A. That attorney told me that the case was not 14 for a Cure participants, or the effects of vessel 14 allowed to go forward on technical issues that had motion on participants related to water conditions at 15 15 nothing to do with my testimony. 16 16 the time of the event. Q. That's what you were told. 17 17 A. As I said, that was a declaration that was A. That's what I was told. 18 18 not accepted for a number of reasons. I wrote a Q. You make no effort to determine whether the subsequent declaration which was accepted, and 19 19 opinion you give in any particular case is ultimately 20 20 admitted into court or excluded; is that true? testified at court to those same issues. 21 21 Q. The Federal District Court also wrote that A. There's a statement in my retention 22 your conclusory assertions are insufficiently helpful 22 agreement that requires the client to notify me of -23 or supported. 23 of any motions to exclude and to, you know, let me 24 24 know about the results of that. A. As I said, --25 25 Q. True? Q. Do you make any independent effort, other

Page 55 Page 53 than that, to find out if your testimony was deemed and flowing river." 2 2 admissible or not? Read that correctly? 3 3 A. I have not. A. Yes. Q. Okay. Number 3. "There was no failure of 4 Q. It's not important to you to know? 4 Defendant to adequately guard and warn of the subject 5 A. It's not, no. 5 6 Q. Okay. It's not important to you wheth -- to hazardous area." 7 I read that correctly? 7 find out whether or not a court feels that you're 8 A. Yes. 8 following the appropriate standards for expert 9 testimony? 9 Q. Number 4. "Defendant's warning sign 1.0 installed at Falls Park was adequately designed, and 10 A. Well, yeah, that -- that has not been of 11 most likely was effective at warning of the subject 11 concern to me. 12 hazards." 12 O. Okay. We have --MR. SIEFF: Jim, if you wanted to take a 1.3 I read that right? 13 14 break I'm going to switch matters. It's up to you. 14 A. Yes. Q. Number 5. "Maggie's mother failed to 15 MR. MOORE: Sure. A short break is fine. 15 16 adequately supervise Maggie." 16 THE REPORTER: Off the record, please. 17 (Recess taken from 10:14 to 10:22 a.m.) 17 I read that right? 18 BY MR. SIEFF: 1.8 A. Yes. 19 Q. Okay. Are there any other opinions, other 19 Q. Doctor, in rendering opinions an expert 20 should not speculate; correct? You would agree with 20 than the five in which I have just read from your 21 21 report, that you intend to present to a jury in Sioux that? 22 Falls, South Dakota on this matter? 22 A. Yes. 23 Q. And should not be guessing at things; you 23 A. At the moment, I don't --24 agree with that? 24 Well these are summary opinions, and I 25 provide support for them and perhaps other opinions in 25 A. Yes. Page 54 Page 56 Q. And if assumptions are made those should be 1 the previous 13 pages. These are just, you know, the 1 clearly identified; correct? 2 2 outline of the five opinions. I don't intend to 3 3 provide opinions on any other issue that I can think 4 4 Q. And an opinion should be rendered without of right now. 5 5 Q. Well I think it's fair that we know all the bias? opinions you're going to give so that we can talk 6 6 7 Q. And only within an area in which the expert 7 about the basis for them and make sure they're 8 8 adequately -- based on adequate facts -has demonstrable expertise. 9 A. Right. 9 10 Q. All right. And if the opinion is based on 1.0 Q. -- and not speculation. So if there are additional opinions that you 11 speculation, the expert -- Well, strike that question. 11 are going to intend to give, can you identify them for 12 I want to talk to you now about your report, 12 13 13 and you have -- I have a copy here for you which has me? A. As I said, I think this covers it. 14 been marked as Nemire Exhibit 2. And I would like you 14 Q. All right. Thank you. 15 to turn to the last page, page 13. At the bottom, 15 A. It describes an outline of what's in the 16 under the heading SUMMARY, it says: "In summary, my 16 17 opinions in this case are that:" 17 report. Q. All right. Is -- Are --18 Number "1. The rocky edge of the canyon 18 Is there any additional work that you know 19 19 walls and the swiftly flowing river presented open and 20 you intend to do on this case between now and when it 20 obvious hazards to visitors." 21 I read that correctly; yes? 21 22 22 A. (Witness reviewing documents.) I think A. Yes. Q. Okay. Opinion number 2, "The foam on the 23 23 there's a - another, I don't know that we'd call it 24 river did not constitute a hazard separate from the 24 an opinion. I provided additional materials in my 25 binder that were not listed in the report. open and obvious hazard of the rocky top of the canyon 25

Page 59 Page 57 1 Q. Well I will come to the materials you've 1 Q. Sure. 2 2 looked at in a second. I just want to know if there's A. -- hindsight bias. 3 any other work you're planning on doing between now 3 Q. Wouldn't you agree that it's a little 4 and the time of trial. 4 difficult for me to spend a lot of time asking you 5 A. I'm trying to answer your previous question 5 questions about hindsight bias when I haven't had the 6 6 about providing any other opinions at trial. I think opportunity to study the issue before you came in here 7 7 that this other material -- the extensions of other today? materials in the first part of this report, but would 8 A. It may be. Q. Okay. And your report was rendered how long 9 not constitute an additional broad opinion. 9 10 Q. 1 ---10 11 Can you explain what you mean by that? I 11 A. It's dated Jul -- June 29th. 12 don't know what you mean. 12 Q. Okay. So almost two months ago; right? 13 13 A. Surc. On opinion number 2, "The foam on the 14 river did not constitute a hazard separate from the 14 Q. Okay. When -- When did you realize that you 15 open and obvious hazard of the rocky top of the canyon 15 should add this hindsight bias discussion to your 16 16 opinions and -- and bases? You said at some point and flowing river." 17 17 Subsequent to the report -after writing your report. 18 Subsequent to writing the report it occurred 18 A. I don't know, maybe in the last several 19 to me that there is another aspect to my support for 19 weeks ---20 that opinion that I did not discuss, and that was 20 Q. Okay. 21 hindsight bias, so I provided a reference on hindsight 21 A. -- when I was thinking more about the case. 22 bias in my binder that I did not reference in my 22 Q. Would that be in your file; would you have 23 report. Hindsight bias has to do with after you know 23 written down a note? 24 24 the outcome, in this case of a -- of an incident, then A. I added it to a document called "file 25 25 you -- it is easy to identify factors that could have contents," and added the reference in my binder. Page 58 Page 60 Q. Did you date it? prevented that -- the actual outcome, but the 1 2 information may not have been available to people 2 A. Date what? 3 Q. Your note? 3 involved in that incident before, in this case, the A. There's no note other than --4 4 fall occurred. 5 So with the foam, you know, afterwards, you 5 O. You added something. 6 know, people, you know, identifying foam as a hazard; 6 A. - my file contents. 7 7 how could it be a hazard? It could obscure the edges Q. Okay. Is there anything on what you added 8 8 to your file contents that would tell us when you put of the ledge. And those opinions after the 2018 9 9 it in the binder? incident and -- are consistent with the hindsight 10 A. No. 10 bias. You know, after the 2018 incident occurred, 11 Q. Okay. Other than that, your opinions -- the 11 then it might be easy to point at foam as a causal 12 factor; whereas prior to the incident people involved 12 opinions that you -- Well, strike that. 13 13 We were talking about additional work you with trying to make the area safe may not be aware of 14 foam as a hazard. 14 wanted -- you needed to do or felt you needed to do. 15 15 Q. Now this hindsight bias you're talking Other than the hindsight bias discussion, is 16 there anything else that you intend on doing before we 16 about, that doesn't appear anywhere in your report; 17 17 go to trial? 18 A. As I've described, yes. 18 A. I think those are two different things. You 19 Q. Okay. And have you provided anything in 19 had asked me about other opinions, --20 writing to your -- to Mr. Moore on this hindsight 20 Q. Right, 21 21 A. - and I used the hindsight bias as an bias? 22 A. I have not, no. 22 example of materials that I have added to my binder 23 23 Q. Okay. So it hasn't been provided to me, you that expand on the opinions provided in the report. 24 This last question has to do with intended 24 would agree with that, since it's not in writing, yes? 25 25 A. Yes. There's a reference in my binder to -future research.

Page 61 Page 63 1 Q. Well let's -between now and the time of trial relative to this 2 2 Then let's make sure we're clear. case? 3 3 Are there any other opinions, other than A. Not that I'm aware of. 4 what you've identified in paragraph 10 of your written 4 Q. Any additional literature that you intend on 5 report, and the expansion of those opinions through 5 relying upon at the time of trial other than what's 6 the hindsight-bias concept, that you intend on 6 been identified in your report? 7 7 offering at the trial of this matter? A. And the additional literature in my binder. 8 8 A. And again hindsight bias is not a separate Q. Is that different than what's in your 9 opinion. 9 report? 10 10 Q. Okay. A. As I said, there is some materials in my 11 11 binder that I've not referenced in the report. A. It is an elaboration on -- on why foam may 12 12 not be a causal factor in this case. Q. What are those? 13 A. (Witness reviewing documents.) There are 13 Q. Let's incorporate that into one of these 1 14 through 5 opinions for the purpose of this question. 14 two papers on what's been termed illusory truth. One 15 is -- the first author is Fazio, F-A-Z-I-O, written in 15 A. Yes. 16 Q. Are there additional opinions not laid out 16 2015 called Knowledge Does Not Protect Against 17 in your report, exclusive of hindsight bias, that you 1.7 Illusory Truth. The second article, first author is 18 intend on offering at trial? 18 Hasher, written in 1977, titled Frequency and 19 Conference of Referential Validity. 19 A. Well again, hindsight bias -- I don't see 20 hindsight bias as a separate opinion. 20 Q. And those were not included in the many 21 21 hours of work that went into your report; is that Q. Okay, Fine. 22 22 A. And so similarly, additional materials I 23 have provided in my binder would be elaborations on 23 A. That's correct. 24 opinions outlined in section 10 of my report, but not 24 Q. And isn't it true that the conclusions or 25 opinions of both those authors have been challenged by 25 separate opinions. Page 64 Page 62 others in the field of human factors? 1 Q. Other than what is in your report, are there 7 2 opinions that have not been disclosed to me up to 2 A. Not that I'm aware of. 3 today that you intend on offering at the trial of this 3 Q. Okay. And in this discussion of hindsight 4 bias, when you do forensic work aren't you looking at matter? 4 an event that's already occurred, by definition? 5 A. If I am asked about the mechanism of fall, 5 6 and I would say the same thing that we had discussed 6 A. Well yes. By definition, yes. 7 7 Q. And that's hindsight; isn't it, sir? earlier about the mechanism of fall. 8 8 O. Why didn't you include that in your report? A. Well --9 O. "Yes" or "no"? 9 A. Through a conversation with Mr. Moore, we 10 had decided that I would write a report rebutting 10 A. Hindsight is different from hindsight bias. 11 opinions of Ms. Gill, and Ms. Gill did not address the 11 O. Is that --12 mechanism of fall. 12 Looking back at an event and trying to 13 Q. So you -- you could have put it in your 13 determine what happened is looking at an event in 14 report, but you chose not to; true? 14 hindsight; true? 15 A. It was outside of the scope of my task. 15 A. I would not call it hindsight. I would call 16 16 it analysis, analysis of past events --17 Anything else? Any other opinions that you 17 Q. I'm sure you wouldn't call it hindsight. 18 intend on offering at trial that we -- have not been 18 A. -- and --19 19 Q. All right. Let's take a look, if we would, disclosed to me? A. Not that I can think of at the moment. 20 20 please --O. If you think of them, will you tell me A. And I'm not done with --21 21 22 22 today? Q. Go ahead, answer. 23 A. -- describing additional materials in my 23 A. I will. 24 24 Q. Thank you. binder. 25 Q. Yeah, please do. 25 Any additional work that you intend on doing

	Page 65	T	Page 67
1	A. I have an article, first author Lesch,	1	Q. And I can look at your binder and figure out
2	L-E-S-C-H, written in 2008 titled Visually Based	2	what those are.
3	Perceptions of Slipperiness: Underlying Cues,	3	A. Yes.
4	Consistency and Relationship to Coefficient of	4	Q. All right. And those include some articles;
5	Friction.	5	right?
6	Q. Okay.	6	A. Yes.
7	A. And those are the additional materials in	7	Q. And Officer Tofte's photos and a video;
8	the binder.	8	right?
9	Q. All right. Now a couple quick questions.	9	A. That's correct.
10	Well again, I'm not clear, is there	10	Q. Now does your binder tell us when you
11	additional work you intend to do between now and the	11	received Officer Tofte's binder photos and videos?
12	time of trial that you know as of today you're going	12	A. No.
13	to do?	13	Q. Do you re
14	A. Actually there is additional materials in my	14	How do you receive materials from counsel;
15	binder that are not listed in the	15	is it by mail or email or what?
16	Q. Okay.	16	A. The Officer Toft videos and supplemental
17	A. — in the report, that I recall. There	17	narrative report and photographs were provided on a
18	might be other materials provided to me by Mr. Moore's	18	DVD that was sent to me by the U.S. Postal Service.
19	office after I wrote the report.	19	Q. Do you keep a record of when it was received
20	So, for example, there's a Officer Toft who	20	by you?
21	was on the scene took a number of photographs and	21	A. I do not.
22	video	22	Q. Do you have any way of telling me when it
23	Q. All right.	23	was sent to you, like maybe the letter, the
24	A which I had not seen before I wrote the	24	transmittal letter?
25	report, but which I viewed since	25	A. (Witness reviewing documents.) Oh, that's
	Page 66		Page 68
1	Q. Okay.	1	right, it was the June 14th was the date of the
2	A that are referenced	2	letter that accompanied the DVD.
3	Q. What else?	3	Q. And again, the date of your report?
4	A in my binder.	4	A. June 29th.
5	Also the deposition transcripts for Courtney	5	Q. All right.
6	Jayne and Crissy Melendez	6	A. Oh.
7	Q. Okay.	7	Q. So you had those materials before you issued
8	A I reviewed. And	8	your report; right?
9	Q. You reviewed both of those?	9	A. Huh. Interesting.
10	A. Yes.	10	Q. You had those materials before you issued
11	Q. All right. Let me ask you	11	your report; right?
12	A. And so there might be other materials. And	12	A. Well yes, according to this
13	if there's any difference, it's readily apparent by	13	Q. Okay.
14	comparing the file contents in my binder with the -	14	A letter.
15	Q. Sure.	15	Q. And you, for what
16	A list of materials in my report.	16	A. But that's not my recollection of —
17	Q. I understand.	17	Q for whatever reason
18	My question though, is: Going forward from	18	A. — events.
19	today. Sitting here today are you aware of work that	19	Q. Okay. For whatever reason, they weren't
20	you intend on doing between now and trial?	20	included.
21	A. I am not.	21	And you you're telling me today you have
22	Q. All right. Thank you.	22	no way of telling me when you decided to put these
23	You do have materials in your binder that	23	other pieces of literature you've referenced in the
24	were not necessarily referenced in your report. True?	24	binder. Is that accurate?
25	A. That's correct.	25	A. It would most likely be sometime in the last

Page 69 Page 71 couple of weeks. 1 A. Yes. 1 2 2 Q. Okay. Why in the last couple of weeks? Q. All right. And you know that to be the 3 A. That's when I began pulling my binder 3 case. together and preparing for the deposition. 4 A. Yes. 5 5 Q. All right. Define for me the term Q. Got it. Okay. "supervise," as you use it, in number 5 of your 6 And other things that you referenced in 6 7 7 terms of materials that are not in the report, one of 8 8 which is the deposition of Crissy Melendez; correct? A. Well in the context of the report, supervise 9 would -- another name would be monitoring the 9 10 Q. Okay. And you've reviewed that transcript. 10 activities of your young child to keep her away from 11 hazards. 11 A. Yes. 12 Q. 1--12 Q. When was it received by you? 13 13 Is that a definition of supervise? A. That was sent to me by email and, I don't 14 14 A. Well supervise is broad. Supervise has to know, maybe a week ago. Q. Okay. And you've reviewed the deposition of 15 do with monitoring some event, it could be a person or 15 16 it could be a -- you know, events that occur on a 16 Courtney Jayne; is that correct? 17 17 display of some type. A. That's correct. 18 Q. What --1.8 O. And when was that sent to you? 19 19 In the field of human factors, is there --A. Last night. 20 Q. When did you review it? 20 is there an accepted definition of the term 21 A. Last night. 21 "supervision"? 22 A. I would have to look it up and see if there 22 Q. Okay. All right. So if you would turn, 23 23 is such a definition. please, to page 3 --24 Well wait a minute. Before we do that, stay 24 Q. Did you do that before you issued your 25 on page 13 if you would, please. I want to ask you 25 report? Page 70 Page 72 1 A. Most likely I did not look it up because I something about category 10, the summary of your 1 2 understand how supervision has been used in human 2 opinions; yes? 3 factors literature. 3 A. Okay. 4 Q. Okay? Define for me the term "hazard," as 4 Q. Okay. Is supervision a term of art in the 5 field of human factors? 5 you use it in your opinions. 6 A. I guess I don't know what "term of art" 6 A. A situation or a circumstance that presents 7 means. Is that a legal term, "term of art"? 7 the risk of injury. 8 Q. Isn't it true that a hazard, as you have 8 Q. You ever heard the word "ergonomics"? 9 A. Yes. 9 defined it, is a condition or set of circumstances 10 Q. Is that a term of art? that has the potential of causing or contributing to 10 11 injury or death? 11 A. I don't know what you mean by "term of art." Q. You don't know what the word -- the phrase 12 A. That's what I wrote in my report, and it's 12 13 "term of art" means. 13 pretty much what I just said, yes. 14 A. I don't --14 Q. Okay. So it could be something that 15 I don't know that that's a term used in 15 actually causes injury; right? human factors is "term of art." 16 16 17 So I know what ergonomics mean, I know what 17 Q. A set of circumstances. Or something that has the potential to cause it; correct? 18 human factors mean, I know what supervisory control in 18 19 the field of human factors means. 19 20 20 Q. All right. And it could be something, a set Q. Define the term "supervision," as you 21 of circumstances that is a cause of an injury or 21 understand it. 22 A. As I said, monitoring, you know, some event. 22 contributes to an injury; --23 Q. Define the term "monitoring," as you are 23 A. Yes. 24 24 Q. -- correct? using it. A. So supervision or monitoring is typically Those are two different things; correct? 25 25

Page 75 Page 73 1 using visual or auditory senses to detect some change 1 means, that's fine. 2 in event that is of importance to the -- the person 2 So you're asking whether open and obvious is 3 3 doing the observation. So the -- what could be a term of art in human factors. 4 4 important differs depending on the task. Q. Does --5 Q. You use the term "supervision" in a number 5 Does the term "term of art" have a 6 of places in your report; true? Or a derivation of 6 specialized meaning that's regularly employed or used 7 7 that term? by those in the human factors field? 8 8 A. I've not counted. I know there's a section A. It is used in the warnings field, yes, for 9 9 on supervision of the child, and I don't know how many those who are - do research and evaluate warnings times. I'm assuming it's more than once. 10 10 often use the term "open and obvious." 11 Q. Before you wrote your report did you do 11 Q. And you also recognize that it is a legal 12 12 anything to determine what the law of the State of term; yes? 13 South Dakota utilizes for a definition of supervision? 13 A. I do. 14 14 Q. And you felt the need to explain what the 15 Q. In issuing your opinion are you trying to 15 term "open and obvious" meant in your report; correct? 16 state the legal definition of the term "supervision"? 16 A. At one point I referenced - said something 17 17 about the hazard was readily apparent, and then added, 18 18 Q. Are you trying to tell the jury that they in parentheses, "open and obvious," yes. 19 should ignore the legal definition of supervision and 19 Q. That's because the term "open and obvious" 20 employ whatever definition you decide to use? 20 is not one that has a specialized meaning in the field 21 21 A. No, I think my report adequately describes of human factors, ergonomics or experimental 22 what I mean by supervision and what type of 22 psychology; true? 23 supervision did or did not occur. 23 A. No. 24 Q. Would you agree that if there's a legal 24 Q. So --25 25 definition of the term supervision given to the jury A. It's because I recognize that "open and Page 74 Page 76 and it differs with your definition of the term obvious" is also a legal term, and wanted to describe, 2 supervision, the jury should be bound to follow the 2 in some other way, that -- you know, what I intended 3 legal definition? 3 and, you know, was -- was trying to avoid this type of 4 MR. MOORE: Object to form. 4 conversation or challenge to the use of "open and 5 5 A. You know, that's a legal issue. All I can obvious." 6 do is explain what I mean by supervision and how 6 Q. Did you choose the -- to use the term "open 7 that's relevant in this particular case and my 7 and obvious"; was it your idea? 8 8 opinions in this case. A. Yes. 9 9 Q. Okay. So in -- on page 13 of your report Q. And you were attempting to be respectful of 10 you used the term "open and obvious." See that? 10 the province of the Court; correct? And the role of 11 A. Yes. 11 the Court in this matter to instruct the jury on legal 12 12 Q. You use that elsewhere in your report; true? 13 A. Yes. 13 A. No. 14 14 Q. That is not a term that is commonly utilized Q. You were not. All right. in the literature related to the field of human 15 15 A. No. My -16 factors or ergonomics; is it? 16 Q. So --17 17 A. Actually it is. A. My point in writing reports, I never 18 18 Q. Is that a term of art in your field? consider courts. 19 A. Again you're asking me to respond to your 19 Q. Or juries. 20 phrase "term of art." I don't know what "term of art" 20 A. Or juries. I try to understand -21 21 means. I try to write in a way that is 22 Q. Would you agree that "term of art" means a 22 understandable, you know, to describe my opinions in 23 term that has a specialized meaning in a particular 23 this case. And I understand that the judge and a jury 24 field or profession, as defined by the dictionary? 24 may be an audience for the report, as well as 25 25 A. Well, if that's what you say "term of art" attorneys on both sides of the issue, as well as other

Page 79 Page 77 1 experts. So there's different audiences for this 1 Q. Is there a single solitary witness in this 2 2 case, other than you, who has called this area a Q. So when you write a report you don't --3 3 canyon? you're not concerned about whether or not anything you 4 A. Not that I recall. 5 say may impede upon the role of the judge; is that 5 Q. Okay. Isn't it true that you picked the 6 right? 6 term canyon in an attempt to be more persuasive about 7 7 A. Yeah, that's true. I don't consider that. your opinion? 8 8 I --A. No. I tried to be more descriptive. 9 Q. Or whether what you write may impede on the 9 Q. Isn't it true that --1.0 10 role of the jury; right? More descriptive. 11 1.1 A. Yes. A. As I said, I'm interested in -- in 12 Q. Okay. Notwithstanding the fact that 12 describing my opinions in a clear way that I think --13 numerous other people who live and work in Sioux 13 Q. For an audience --14 A. -- should be helpful for many different 14 Falls, have never, ever, ever referred to this area as 15 15 a canyon. audiences. 16 Q. And you consider the jury an audience; is 16 A. I don't know if that's true or not. 17 17 Q. You've read every deposition in this case; that right? 18 A. I did, ves. 18 yes? 19 Q. Okay. So back to page 13. You reference A. Well that's different from whether they've 19 20 "canyon walls" and a "canyon"; right? In paragraphs 1 20 ever referred to that as a canyon. 21 and 2 of section 10. "Yes"? 21 Q. Did any of -- any of the people who have 22 been deposed in this case refer to this area as a 22 A. Well I don't see the word "walls" in here, I 23 23 canyon? see "rocky top of the canyon." 24 Q. No. Paragraph 10 on page 13 at number 1 24 A. Not that I recall. 25 Q. Did any of the first responder reports 25 says, 1 period, "the rocky edge of the canyon walls." Page 78 Page 80 1 involving the 2013 drowning or the 2018 drowning refer 1 A. Oh, number 1. I sec. 2 Q. Yeah. 2 to it as a canyon? 3 3 A. Yes. A. Not that I recall. 4 Q. Do --4 Q. Okay. Define the term "canyon" as you've 5 Did any of the various documents, emails, 5 used it in your report. 6 memorandum, et cetera, issued by the City of Sioux 6 A. It is the -- the channel in the earth that 7 7 Falls prior to Maggie's death, refer to this area as a was created by the river running through it. 8 canyon? 8 O. So any channel in the earth that contains a 9 A. Not that I recall. 9 water stream would be considered to have a canyon? 10 A. Well in this partic --10 Q. Did any of the City of Sioux Falls 11 documents, communications, emails, et cetera, issued 11 I don't know about "any," but in this case subsequent to Maggie's death refer to this area as a 12 12 there was obvious rocky walls of some height that I 13 13 would -- I would consider it a canyon because of the canyon? 14 A. Not that I recall. The point of using that 14 -- of the walls. 15 term is I found that many of the terms used by others 15 Q. You chose the term "canyon"? involved in this case were not specific enough, 16 16 A. I did. 17 Q. You chose the term "canyon" as opposed to a 1.7 specifically when they talk about rocky ledges. After 18 term such as "drop-off"; true? 18 visiting the site there are actually a number of rocky 19 A. I don't know if I used the word drop-off in ledges along the canyon wall, and it was not clear 19 20 from statements, descriptions of the incident, 20 the report; I may have. I don't recall. 21 statements of the -- or descriptions of the foam, O. Isn't it true that virtually every witness 21 22 which rocky ledge was -- was obscured by the foam, and 22 in this case, including the law enforcement and first 23 23 I thought that was important to describe. responders referred to the area where Maggie fell off 24 24 Q. And that's how you determined to use the as a drop-off? 25 25 term canyon. A. Well, that would be fine.

	Days 01	T	Page 83
	Page 81		
1	A. It is.	1	Q. Have any of your opinions changed, or been
2	Q. Have you been to the Grand Canyon in	2	modified, amended or in any way different from the
3	Arizona?	3	opinions set forth in your report since you authored
4	A. I have.	4	it and signed it on June 29, 2019?
5	Q. Does it look similar to what you observed at	5	A. Other than what we've discussed, no.
6	Sioux Falls at Falls Park?	6	Q. Otherwise you've not amended your opinions
7	A. Well, it does.	7	in any way; correct?
8	Q. It does. Okay.	8	A. Other than what we've discussed.
9	A. It has rocky walls, and that's creates a	9	Q. And you have, since authoring your report,
10	- is a space carved out by the river.	10	had an opportunity to read the deposition transcripts
11	Q. What's the difference between a canyon and a	11	of Courtney Melendez or excuse me, Crissy Melendez
12	gorge?	12	and Courtney Jayne; correct?
13	A. I do not know.	13	A. Yes.
14	Q. What's the difference between a canyon and a	14	Q. Both of whom were present at the incident
15	flume?	15	site when Maggie went into the water; correct?
16	A. I do not know.	16	A. That's correct.
17	Q. What's the difference between a canyon and a	17	Q. You did not have the benefit of those
18	gap?	18	transcripts when you issued your report; correct?
19	A. I do not know.	19	A. That's correct.
20	Q. Or a ravine?	20	Q. Is it your testimony that nothing either of
21	A. Do not know.	21	those two young mothers had to say altered or amended
22	Q. What is the definition of a canyon?	22	your opinions in any way?
23	A. I was using it in the report, as I have	23	A. Well the the opinions, as outlined
24	said, to describe the rocky walls, you know, left by	24	So no. Those opinions as outlined in
25	river carving out	25	section 10 of my report have not been changed as a
	Page 82		Page 84
1	Q. You deliberately	1	result of reading those two depositions transcripts.
2	A pieces of the earth at the bottom of the	2	Q. Okay. On page 2 you state, quote: I have
3	rocky walls.	3	written numerous papers about the psychology and
4	Q. Isn't it true you deliberately selected the	4	mechanics of human walking and falling.
5	term canyon in an attempt to persuade your audience	5	A. Which paragraph are you
6	that this was some massive drop-off akin to the Grand	6	Q. I'm sorry.
7	Canyon?	7	A. — talking about?
8	A. No, that's not true.	8	Q. First paragraph. First full paragraph,
9	Q. Okay.	9	second-to-the-last sentence.
10	A. As I said, it was an attempt to try to be	10	A. Okay.
11	more specific so I could talk about the top of the	11	Q. Why did you include that sentence as it
12	canyon walls.	12	pertains to this case?
13	 I want to go through your report in detail. 	13	A. Because one of the issues in this case has
14	Let's start at page 1. The second paragraph of page 1	14	to do with Maggie falling into the river, and prior to
15	of your report, which is Exhibit 2, by the way,	15	that she would have walked or run into the river.
16	identifies what your report is based upon. And you	16	Prior to that she may have tripped, she may have, you
17	state it's based upon the facts of your personal	17	know, inadvertently stepped off onto — in an area
18	knowledge, facts discerned from documents, expertise	18	where there's no level of support, so there's an issue
19	obtained over 28 years as an experimental psychologist	19	of gait and falling. I think later on I talk about
20	and human factors engineers engineer, and the	20	the speed of walking and running of people of
21	report and its opinions or conclusions are final to a	21	different ages, so it seemed pertinent to add that
22	reasonable degree of scientific certainty based on the	22	sentence to describe things that I might describe like
23	examination of information provided to date.	23	- to provide foundation for things I might describe
24	That date was June 29th, 2019; correct?	24	later on in the report.
25	A. Yes.	25	Q. You just testified Maggie ran into the

	Page 85	Ī	Page 87
1	river?	1	The range The universe of possibilities
2	A. No. I said she might have walked or run	2	that you believe explain the mechanism of her entering
3	into the river.	3	into the river are a trip and fall; right?
4	Q. You're speculating she might have run into	4	A. Yes.
5	the river.	5	Q. Or an air step. Is that right?
6	A. I think that's what Ms. Jayne said.	6	A. Both of those are consistent with Jeremy's
7	O. That she ran into the river?	7	description of Maggie's trajectory prior to
8	A. Ran into the what she thought was snow,	8	Q. Okay.
9	yes, and that caused her to fall. That's my	9	A falling into the river.
10	Q. Who said that?	10	Q. And those are the mechanisms of her falling
11	A. Ms. Jayne.	11	into the river that you think are consistent with what
12	Q. Her mother?	12	Jeremy has described.
13	A. Yes.	13	A. That's correct.
14	Q. Said that Maggie ran into the snow.	14	Q. Any other mechanisms that you believe are
15	A. That's what I recall, yes.	15	consistent with what Jeremy has described?
16	Q. And you read that last night.	16	A. With Jeremy's description, it sounds
17	A. Yes.	17	Q. Or any other facts.
18	Q. Okay. This notion that Maggie tripped and	18	A. That's the only thing we have. None of the
19	fell into the river is based on any on what facts?	19	adults say that they, you know, saw or remember
20	Identify for me every fact upon which you base a	20	anything about Maggie falling, so we don't have any
21	belief that she may have tripped and fell into the	21	other information about the mechanism of fall. Jeremy
22	river.	22	is the only witness that we know of, and we have
23	A. There are no facts available to describe the	23	bruises on Maggie's legs. None of None of the
24	mechanism of fall. So, you know, any attempt to	24	bruises are informative in terms of the cause of the
25	describe a mechanism of fall would be to evaluate what	25	fall because those bruises could have happened fall
	Page 86		Page 88
1	are the possibilities given the descriptions of the	1	you know, on the way down to the river, it could have
2	fall provided by Jeremy Irlbeck, and	2	happened as she's tumbled by the river, so we don't
3	Q. Isn't it just as possible	3	know how she got those bruises. So the only things we
4	A. If I could finish?	4	know is from Jeremy's account, and that is she was
5	Q. Sure.	5	reaching forward, which implies that Maggie was
6	A. Jeremy Irlbeck told the police that Maggie	6	standing and reaching forward, and she fell forward.
7	was reaching toward the snow or foam and fell forward	7	Both of those things So then the mechanism of fall,
8	and eventually fell into the river. So that forward	8	given Jeremy's description, could be a trip and fall
9	falling is consistent with two different mechanisms:	9	or it could be an air step.
10	One is a trip and fall, and the other is an air step,	10	Q. Okay. Any other potential mechanisms of
11	as I described earlier. There is the rocky, uneven	11	fall that you're prepared to tell the jury you believe
12	surface at the top of the canyon walls are consistent	12	are possible?
13	well do present trip hazards and could cause	13	A. Not that I can think of.
14	someone to trip and fall forward. And when we trip,	14	Q. Okay. She wasn't pushed in; correct? To
15	it's we typically, if not always, we fall	15	your knowledge.
16	forward from the point of the tripping obstacle and	16	A. Not according to Jeremy.
17	then the body falls forward. As opposed to a slip,	17	Q. Are you going to testify she was pushed in?
18	which is typically a fall backwards.	18	A. No.
19	Q. Okay.	19	Q. Okay. Are you going to testify she jumped
20	A. So So the rocky uneven surface present a	20	in?
21	trip hazard. Maggie fell forward, that's consistent	21	A. Well the
22	with a trip hazard. So it is possible that Maggie	22	Q. No, no.
23	tripped and fell forward into the river.	23	A. No.
24	Q. All right. I just want to make sure I	24	Q. Are you going to testify she jumped in?
25	understand this. Okay?	25	A. You know, if if the only information I

	Page 89	T	Page 91
1	have is Jeremy's description, then jumping in is not	1	A. That's correct.
2	consistent with Jeremy's description.	2	Q. You have no training in law enforcement;
3	Q. What you would say, based on Jeremy's	3	correct?
4	description, is either a ghost or air step, using	4	A. That's correct.
5	synonymous terms, or a trip and fall.	5	Q. Okay. All right. So I understand now why
6	A. That's correct.	6	you included the sentence about psychology mechanics
7	Q. Okay. You mentioned bruises on her;	7	and human walking and falling. I'd like to for you
8	correct?	8	to direct your attention, please, to number 2.
9	A. Yes, there are bruises on her legs and a	9	A. Number 2?
10	small laceration on her head.	10	
11		11	Q. Excuse me. Page 2. I'm sorry. In the first sentence of paragraph three you
12	Q. When did you review the autopsy report?	12	write experimental and human factors engineering. I
13	A. I think that was sent to me last couple weeks.	13	just want to make sure I'm clear about something.
14		14	Human factors is an engineering discipline; is it not?
15	Q. When did you review autopsy photos?	15	A. Well you can say human-factors psychology,
16	A. Oh, autopsy photos. Q. Yes.	16	you can say human-factors engineering, there — there
17	Q. Yes. A. Well I've not reviewed autopsy photos.	17	can be two different focuses. So, for example, the
18	Q. Okay.	18	Board of Certification in Professional Ergonomics
19	A. I reviewed photos of Maggie's body that	19	offers one exam that — that one must pass in order to
20	Officer Tofte took, and I believe I had seen a few of	20	get certification as a human-factors professional, and
21	-	21	but the certificate has a choice to be called a
22	those some time ago, and then it wasn't until recently	22	Certified Ergonomics Professional or a Certified Human
23	that I reviewed the all of his photographs.	23	Factors Professional, so
24	Q. Was that after you issued your report that	24	O. Well which is it?
25	you did that?	25	· ·
23	A. Reviewed all of the photographs?	123	A. And the the questions on that test, you
ŀ	Page 90		Page 92
1	Q. Yeah.	1	know, have to do with psychology as well as
2	A. Yes.	2	engineering, human-factors engineering and
3	Q. And the autopsy report?	3	human-factors psychology issues.
4	A. Yes.	4	Q. So when you wrote human-factors engineering,
5	Q. I asked you earlier to tell me everything	5	did you mean human-factors engineering and/or possibly
6	you reviewed after you issued your report and you	6	psychology?
7	didn't tell me about those. Why is that?	7	A. Since I already mentioned psychology when I
8	A. I did tell you about the Tofte DVD with	8	wrote experimental psychology, I typically write the
9	videos and photographs.	9	sentence in this way, "experimental psychology and
10	Q. But the autopsy report; was that on Tofte's	10	human-factors engineering" to cover both bases.
11	DVD?	11	Q. And in the paragraph four on page 2 you
12	A. Yeah. I forgot. No, it was not.	12	write that you're expressing your opinions to a
13	Q. Okay. You forgot.	13	reasonable degree of scientific, technical, and human
14	A. I forgot to mention the coroner's report.	14	factors engineering certainty. See that?
15	Q. So you talked about bruises on her. I just	15	A. Yes.
16	want to make sure I understand this. Are you an	16	Q. You chose those words; correct?
17	expert in forensic pathology?	17	A. That's correct.
18	A. I am not.	18	Q. You go on to say, "and based on reliable and
19	Q. Do you have any medical training related to	19	generally accepted scientific and human factors
20	pathology?	20	engineering techniques." See that?
21	A. I do not.	21	A. Yes.
22	Q. Pathology, so it's clear for everybody on	22	Q. You chose those words; correct?
23	the jury, you're not a coroner; correct?	23	A. I did.
24	A. That's correct.	24	Q. And at least in your instance you consider
25	Q. Or a law enforcement detective; correct?	25	human factors to be an engineering discipline;

Page 95 Page 93 materials you have reviewed? 1 correct? 1 2 2 A. Because I reference them, and citing this is A. It is both. 3 O. All right. Now turn, please, to --3 my opinion, this is how I think people behave, and 4 this is research that supports my opinion in terms of 4 A. "Both," being engineering and psychology. 5 Q. You didn't use the term "reasonable degree 5 how people behave, and then I list in section 3 the of human factors engineering and psychological б reference --6 7 7 techniques"; true? O. Great. 8 A. Well psychology is -- is subsumed under 8 A. -- from that citation. 9 9 Q. Got it. 10 Some may call that a recitation of some of 10 Q. Okay. And again you selected these terms, 11 nobody else; right? 11 the bases, the source materials for your opinions. 12 A. That's correct. 12 A. Okay. 13 Q. Do you have an issue with that, or no? 13 Q. To include. 14 14 Turn to page 3, if you would, of your A. No. 15 Q. Okay. You also identify all the materials 15 report. The -- The first -- Well section 3 on page 3 provided by defendant's counsel that you reviewed. Do 16 starts, and it is a section on materials reviewed; 16 17 you see that on page 3 --17 correct? 18 A. Yes. 18 A. Yes. 19 19 Q. -- of your report? Q. Did you review what you wrote in section 3 20 And you list 25 items; correct? 20 before you issued your report? In other words, did 21 21 you review it to make sure it was accurate? A. Yes. 22 22 Q. Were there any materials provided to you by A. I don't understand the question now. 23 23 defendant's counsel that you reviewed and are not Q. Okay. You issued your report on June 29, if 24 identified on page 3 of your report, other than what 24 I remember correctly. 25 25 A. Yes. you've told me you reviewed recently? Page 96 Page 94 1 Q. Before you sent it to counsel and issued it, 1 A. Well not that I'm aware of. 2 Q. Okay. And you reviewed each of these items 2 did you proofread section 3, which relates to the 3 3 materials you reviewed? identified at page 3 as being provided to you by 4 A. Yes. 4 defense counsel; correct? 5 Q. Okay. 5 A. Numbers 1 through 25, yes. 6 Q. Yes. And they helped form the bases of your 6 A. I included materials that I had received, 7 7 and that I -- I had reviewed in some way, yes. opinions; correct? В 8 Q. Okay. And you reviewed, for example, all of A. Yes, in that I evaluated the information 9 the research materials that you've identified on pages 9 provided and, you know, the -- coming to my opinions 10 10 3 through 5; correct? is an evolutionary process. So I start with reviewing 11 A. Yes. 11 some materials and generating hypotheses about what 12 Q. And all of those research materials that you 12 happened, and then those change. So, you know, if I 13 have reviewed and identified on pages 3 to 5 of your 13 review some material and that turns out not to be of 14 report help form the bases of your opinion; correct? 14 interest, or relevant to my opinions, then I might 15 15 A. That's correct. have reviewed it, but it may not have provided any 16 16 useful information for my opinions. Q. Okay. 17 A. Well they -- they support my opinions in 17 Q. Which of the items identified in item -numbers 1 through 25, if any, did you review and find 18 that I reached my opinions based on my understanding 18 19 19 not useful? of human factors and experimental psychology and research on human information processing, and based on 20 A. Well, for example, somewhere in number, 20 21 that experience I came to my opinions, and then I 21 maybe 4 and 5, the city's document production, or 22 provided a list of materials that support those 22 maybe number 9 -- 8 and 9, the supplemental and 23 23 initial disclosures, there's information about the opinions. 24 training that occurred in July and September of, must 24 Q. Why, in your report, and in all of the 25 reports you issue for litigation, do you identify the 25 have been 2018 having to do with safety assessments.

Page 97 Page 99 1 At some point it was agreed upon between Mr. Moore and 1 A. I recall reading that, yes. 2 myself that I would not address the risk-management 2 Q. Okay. I need to know if you're prepared to 3 3 practices of the city, so then understanding how they testify -- if you're intending on testifying that 4 4 came about putting up the warnings and - and -- and there was in fact a hazard analysis performed at Falls 5 doing some things and not others was no longer 5 Park prior to Maggie's death. 6 relevant to my opinions for this report. So I 6 A. No. I would not testify --7 7 reviewed some of those materials about the training Q. Okay. 8 8 and the risk-management practices and policies, but A. - about that one way or the other. 9 9 they did not inform my opinions. Q. Okay. 10 10 Q. And you're not going to be offering opinions A. I need to clarify, which is something I 11 11 on the training issues; correct? tried to clarify earlier, I think was perhaps 12 A. That's correct. 12 interrupted. The -13 Q. Or the risk-management activities, or 13 Q. You'll be -whatever we want to call it; correct? 14 14 A. The warning signs that were created reflect 15 15 A. That's correct. some level of hazard analyses. And so I want to make 16 Except as related to warnings, because the 16 sure you are not trying to preclude me from evaluating 17 warnings came out of the -- the risk-management 17 the hazards presented in the warning signs and that 18 policies and the actions that they took subsequent to 18 the city, you know, somehow failed to identify some 19 the 2013 incident. 19 relevant hazards, because that's not something I 20 Q. And you're not going to offer any opinions 20 21 21 on whether or not the city undertook an appropriate Q. What I'm trying to do is find out what 22 hazard analysis before Maggie's drowning; correct? 22 you're going to testify to, and what gives you the 23 You understand the term "hazard analysis"? 23 right as an expert to express your testimony. What I 24 24 A. I do. intend to do with it should not be of your concern. 25 25 Q. Have you expressed an opinion on whether or So what I really need to know is whether or Page 100 not an appropriate hazard analysis was undertaken by not you are going to testify that the City of Sioux 1 2 the city before Maggie's death? 2 Falls conducted a hazard analysis relative to Falls 3 3 A. A part of hazard analyses has to do with not Park before Maggie Zaiger drowned. 4 only identifying hazards, but also identifying 4 A. Well it's obvious that they conducted some 5 5 possible solutions for mitigating those hazards, or type of hazard analysis because they described hazards 6 6 and means to avoid those hazards in the warning sign. eliminating or mitigating those hazards -7 Q. Hazard analysis --7 So, you know, if you want me to say they didn't -- did 8 8 A. - and so not do any hazard analyses, I cannot say that just 9 9 Q. Sorry. based on the evidence presented in the hazards 10 10 described in the warning sign. I think the city A. - so since in my report I did discuss 11 issues of - of fencing and warnings, you know, then 11 clearly did some hazard analysis activity. 12 12 -- so I think the absence of fencing and the presence Q. Are you going to testify to the adequacy of 13 of the warnings would be results of those hazard 13 the hazard analysis that you claim the city undertook, 14 14 and whether or not it met standard of care or not? analyses. 15 15 Q. Hazard analysis is a very specific term; is A. If asked, you know, I would -- I would 16 it not? 16 testify I have the opinion that the warning sign 17 17 that's presented in the park sufficiently describes A. Yes. Typically it has to do with 18 18 the relevant hazards in this case. identification of hazards, and then there's another Q. I'm talking about the -- hazard analysis as 19 step then often called something else that - where 19 20 20 that term is routinely used in the risk management you generate solutions or, you know, possibilities for 21 field. 21 how to eliminate or mitigate those hazards. 22 Q. You're aware, are you not, that there has 22 A. There are a lot of different kinds of hazard 23 been testimony by individuals who conducted the 23 analysis, and in general, you know, it is either a 24 24 training you've referred to that they did not provide physical walk-through or a cognitive walk-through of a 25 25 a full hazard analysis relative to Falls Park. task or environment to identify potential hazards in

Page 101 Page 103 that job or task or environment. 1 comes before me. So I don't evaluate credibility 2 2 Q. So with -issues. You know, I just don't think about 3 3 credibility. I evaluate the -- the amount of A. So I don't -- I have not studied the types of hazard analyses, if any, that were performed by the information, you know, that's in evidence. 5 city, and it is obvious that they performed some type 5 Q. Any other documents in 1 through 25 that you 6 6 deemed irrelevant to your analyses? of analyses because the warning signs indicate a 7 sufficient and adequate description of hazards at A. I think, for example, the deposition of Ben 8 least that are relevant to this case. 8 Statema, I believe that was solely related to the 2013 9 9 incident. I might have skimmed those things, but I Q. Are you going to offer an opinion as to 10 have not put much weight on anything involving the 10 whether or not the City of Sioux Falls conducted a 11 11 risk management audit prior to Maggie -- at any point 2013 incident. 12 in time prior to Maggie's death? 12 Q. Why is that? 13 A. I don't even know what "risk management 13 A. I don't see that it is relevant to this 14 14 particular incident. audit" means, so I will not say anything specifically 15 15 Q. Why? about risk management audit. 16 A. Because the fall that occurred, you know, on 16 O. Do you intend on opining on the adequacy of 17 17 any hazard analysis that you claim the City of Sioux the -- on the face of it, you know, that particular 18 incident involved a young child that was reported to 18 Falls undertook prior to Maggie's death in 2018? 19 A. As I said, it was sufficient enough to 19 be interacting with the foam in some way and ended up 20 falling, and those -- and that incident is paired with 20 describe the hazards that are relevant in this 21 21 the 20 -- 2018 incident because of the similarities, situation. Whether they performed a hazard analyses 22 that was adequate for all of the hazards in the park, 22 it's a young child and -- and they're interacting with 23 I don't know. That's not something that I would 23 foam. But in evaluating what type of warnings should 24 24 have been placed, if at any evaluating the hazards in provide an opinion about. 25 25 Q. All right. So I want to go back to your the subject situation, what we have to do is look at Page 102 Page 104 1 report, if I could. Okay? 1 all of the deaths and the rescue attempts that happen along the river in the last, you know, X number of 2 2 And I understand that you did not find the 3 years and then evaluate what should be done, well one, 3 initial disclosure of the city and the supplemental 4 to identi -- what hazards are -- can be identified 4 initial disclosure relevant to what you were doing as 5 based on these incidents, and what can be done to 5 those disclosures involved training issues and 6 risk-management issues. 6 attempt to prevent those incidents in the future. 7 7 So the 2013 incident is one of 42, if I A. I don't recall what documents were included 8 as part of those initial disclosures. If all of them 8 remember, between 1980 and 2018, and -- and it's just 9 had to do with training, then yes, I would agree with 9 one out of those 42. There are many other deaths and rescue attempts that also need to be considered. 10 your question that I would not provide any opinions 10 11 Q. In 2013 a young child went into the water; about that. But I think there were other documents 11 12 correct? 12 provided in those initial disclosures that I did use, 13 13 A. Yes. 14 Q. And subsequently two individuals who 14 Q. I'm trying to find --15 attempted to rescue that young child got into the 15 A. -- such as the --16 16 water and ultimately drowned; correct? O. I'm sorry. 17 17 A. That's correct. A. -- such as the police report I believe was 18 in part of the initial disclosure, and the police 18 Q. The precipitating event of those two people getting into the water and drowning was the young 19 photographs, and those certainly provide information 19 20 child who fell into the water; correct? 20 that I used in forming my opinions. 21 21 Q. Did you judge the credibility of the police 22 22 Q. The young child fell into the water in reports in reaching your opinions? 23 approximately the same area as it's reported that 23 A. Yeah, I have trouble with your use of Maggie Zaiger fell into the water; correct? 24 24 "credibility," that -- that just doesn't enter into my

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A. That's my understanding, yes.

thought processes in -- in evaluating information that

<u></u>	Page 105	T	Page 107
1			
2	Q. That's correct; isn't it, according to the	2	unaware that the river was below the unseen ledge from
3	reports? A. That's my understanding based on those	3	which he fell; correct? A. That I don't recall.
4		4	
5	reports, yes. Q. Okay. Thank you.	5	Q. Okay. And it's reported that Maggie was unaware of the river below the unseen ledge where she
6	And the incident in 2013 is reported to have	6	fell; correct?
7	occurred when the young child was interacting with	7	A. Well
8	foam in the in the river; correct?	8	O. Is that correct?
9	A. Yes.	9	A. Well I don't know that that's correct.
10	Q. Maggie Zaiger was re is reported to have	10	Q. Okay. So in 2013 we have a young child
11	fallen into the river while interacting with foam;	11	interacting with the foam in approximately the same
12	correct?	12	area as Maggie Zaiger who falls off an unseen ledge
13	A. Yes.	13	during a transient period of high foam, into the
14	Q. Okay.	14	river; correct?
15	A. By Jeremy, but not by	15	A. Yes.
16	Q. I didn't ask you by	16	Q. In 2018 Maggie Zaiger, who is a young child,
17	A. — not by the two adults. So there is	17	is interacting with the foam in the same area as the
18	conflicting reports about what Maggie was doing. You	18	child who fell in off the ledge in 2013, and she falls
19	know, the two adults don't know, you know. So if we	19	off into the river off an unseen ledge during a high
20	are just looking at Jeremy's statement, then yes, she	20	foam period of time; correct?
21	was reaching for the foam.	21	A. Yes.
22	Q. And Jeremy was there; correct?	22	Q. The drowned
23	A. Yes.	23	The young child going into the water in 2013
24	Q. So Jeremy's statement about what happened	24	which resulted in the deaths of two people is
25	ought be given credibility by you; shouldn't it?	25	substantially similar in how it occurred to the death
-		-	
	Page 106		Page 108
1	A. And I have.	1	of Maggie Zaiger in 2018; correct?
2	Q. Okay. And Jeremy reports that both he and	2	A. I think as you've described, yes, there are
3	Maggie were there to interact with the foam; correct?	3	
4	A. That's correct.	4	Q. Okay.
5	Q. All right. The same thing that the young	5	A. — substantial similarities.
6	child was doing in 2013; correct?	6	Q. And you had the benefit of all the
7	A. That's correct.	7	information that you requested or needed to review to
8	Q. All right. And the young child in 2013 is	8	understand what people believed happened in 2013 as of
9	reported to have fallen off an unseen ledge into the	9	the time you issued your report; correct?
10	river; correct?	10	A. Well I as I said, I reviewed the
11	A. That's what I've read, yes.	11	materials listed in my report.
12	Q. And it's reported that Maggie Zaiger fell	12	Q. And that included a plethora of information
13	off an unseen ledge into the river; correct?	13	about what happened in 2013; correct?
14	A. Yes.	14	A. That's correct.
15	Q. Okay. And the young child in 2013 went into	15	Q. And you had all the information that you
16	the river during a period of high foam, or large foam	16	needed or required or asked for as of about Maggie
17	buildup; correct?	17	Zaiger's death at the time you issued your report,
18	A. That's correct.	18	other than the deposition transcripts of the two
19	Q. An event that does not take place 365 days	19	mothers who were there; correct?
20	of the year in Falls Park; correct?	20	A. I'm sorry. Ask that again.
21	A. That's correct.	21	Q. You had everything you needed to know about
22	Q. The foam buildup occurs during very	22	what happened to Maggie Zaiger when you issued your
23	discrete, specific times of the year; correct?	23	report, other than the two deposition transcripts.
24	A. That's my understanding.	24	A. I don't know if it's everything I needed.
25	Q. And it's reported that the young boy was	25	It's It's everything I had.

Page 109 Page 111 1 Q. And everything you had asked for? 1 A. Yeah, I would have to look at the rest of 2 2 that transcript before I can -- because, you know --A. I don't know that there's any other material 3 3 Q. Here's what I -out there, yes. 4 A. -- you're cherry-picking there for the 4 Q. Everything you had asked for; correct? 5 A. I mean there -- it would be nice to have 5 testimony. video of that incident but, you know, I work with the 6 My recollection that most of these staff did 7 not agree with the ques -- or with the statement that materials that are available. 8 8 the foam was a hazard, and did not agree with the Q. Isn't it true that the foam can hide 9 9 portions of the Falls rocks formations? statement that the city recognized the foam as a 10 10 hazard after the 2013 incident, but started looking at A. Portions, yes. 11 Q. Isn't it true that the foam can create an 11 it more thoroughly, I guess, or taking it more 12 attraction for visitors? 12 seriously as a hazard after the 2018 incident. 13 13 A. I have not seen any evidence of that. Q. Isn't it true Mr. Kearney testified under oath and subject to the penalty of perjury, that the 14 Q. Isn't it true that the foam can draw 14 15 foam was a factor in both the 2013 and 2018 drownings? 15 visitors even closer to the water? 16 A. Yeah. Again I would have to review the 16 A. Well you have these two incidents, the 2013 17 and the 2018. We know that Jeremy and the two girls 17 transcript, not just that page. 18 -- the three girls, including Maggie, appeared to be 18 Q. Wouldn't it be for the jury to make a 19 determination as to the accuracy of his testimony as 19 there to look at the snow/foam, so that would indicate 20 20 that at least these four children and Garrett in the opposed to you? 21 21 2013 incident were interested in the foam. As a A. I'm not -- I'm -- I'm expressing concern 22 about the accuracy of his testimony given the absence 22 general blanket statement I don't know that you can 23 23 say that it -- in general it acts as an attractant. 24 24 Q. Isn't that what the City of Sioux Falls Q. Please direct your attention to paragraph --25 25 or page 30 of Mr. Kearney's deposition transcript. believes, that the foam can create an attraction for Page 110 Page 112 1 A. (Witness reviewing document.) 1 visitors? A. I think they - from my reading of the 2 2 Q. You have my only copy. I will direct you to 3 the line that I need you to read if you could return 3 deposition transcripts after the 2018 incident they started looking at foam as a hazard, but not after the 4 4 5 5 A. I'm going to read the other pages as well. 2013 incident. 6 Page 29 he said: The city knew about this 6 Q. Isn't it true, sir, that the foam was identified as a hazard following the 2013 drownings? 7 7 hazard in 2013. Oh, no. You asked: The city knew 8 8 A. I think it was identified as an issue, about this hazard in 2013 because of the incident in 9 2013; true? Answer: We didn't identify it as a 9 something to evaluate, but my recollection of deposition transcripts from Mike Hall, for example, 10 10 hazard. Kelby Mieras, you know, they both disagreed that they 11 So that's -- that's of course what I've said 11 12 about my recollection of his --12 understood the foam to be a --13 Q. Surc. 13 Q. Do you know who --A. - a hazard after the 2013 incident. 14 A. -- testimony as well as the other staff, 15 most of the other staff about the -- recognizing the 15 Q. Do you know who Don Kearney is? 16 foam as a hazard in twenty thir -- after the 2013 16 17 Q. Don Kearney is employed by the City of Sioux 17 incident versus the 2018 incident. 18 Q. Please read page 30, line 15 through 17 of 18 Falls? 19 Mr. Kearney's under oath testimony, sir, and only 19 A. Yes. 20 20 Q. He's the park director? those lines. 21 A. Well again you're asking me to --21 22 22 Q. Isn't it true that he was asked, quote, was Q. 1 just --23 A. -- evaluate something out of context. 23 the fact that there was an unseen ledge a hazard, an identified hazard in the 2013 drownings? His answer, 24 Q. I'm not asking you to evaluate something, 25 I'm asking you to read something. 25 under oath: Yes.

Page 115 Page 113 1 A. What do you want me to read? 1 So I'm advocating for science, not the 2 Q. 1 -- Paragra --2 city's position. 3 3 Page 30, line 15 through 17. Line 15: And foam was a factor in both of 4 4 A. Well again it's the same issue. Yes, he those drownings, the 2018 and 2013 drowning; true? 5 said he --5 Answer: Yes. 6 6 Q. No, no. Q. Thank you. 7 A. - now he believes it's a factor in both 7 THE WITNESS: Can we take a break? 8 MR. SIEFF: Yes, of course. 8 incidents. But after the 2013 incident and before the 9 9 THE REPORTER: Off the record, please. 2018 incident the city had not identified the foam as (Recess taken from 11:47 a.m. to 10 10 a hazard. 11 11 Q. Again I'm going to ask you to follow my 12:28 p.m.) 12 12 question, please, and read for the trans -- for the BY MR. SIEFF: 13 record and the jury, page 30, line 15 through 17 of 13 Q. Doctor, turning your attention to page 6 of 14 14 Exhibit 2, which is your report, I'd like to direct Mr. Kearney's under oath testimony. 15 15 A. Page 30, line 15: And foam was a factor in your attention, please, to your statement that you -both of those drownings, the 2018 and 2013 drowning; 16 16 Generally speaking would you agree that 17 17 you've looked at an analysis of the descriptions of 42 true? Answer: Yes. 18 18 drownings and rescues since 1980 provided by the Sioux Why didn't the city identify the fact that 19 this foam builds up so large that it creates an unseen 19 Falls Argus? 20 ledge leading to a fall into a river? When we 20 A. I'm sorry. 21 21 reviewed the incident, we didn't identify that as a Q. Sure. Let me rephrase it. 22 22 We're going to take a look starting at page hazard. 23 MR. SIEFF: Okay. I'm going to move to 23 6 under the heading DESCRIPTION OF HAZARD. In the 24 24 strike that answer, and once again I'd ask you to first paragraph you are describing an analysis you 25 25 simply read page 13, line 15 to 17. conducted of 42 -- descriptions of 42 drownings and Page 114 Page 116 1 A. Okay. So you're asking me to take that 1 rescues since 1980 at Falls Park provided in the local 2 answer out of context to the rest of his answers. 2 newspaper. Is that a fair statement? 3 Q. I'm asking you to not be an advocate and 3 A. Yes. 4 determine for the jury which parts of testimony they 4 Q. And you go on to describe, or -- your 5 5 should find credible and which ones they should not. analysis of those drownings. Is that a fair 6 I'm simply asking you to read into the 6 statement? 7 transcript what Mr. Keamey testified to under oath. 7 8 8 A. I'm not being an advocate for the city's Q. All right. And you conclude, towards the 9 9 position, I'm being an advocate for witness statements end of that paragraph, that, quote, analyses of these 10 about what was perceived as a hazard and not perceived 10 42 incidents indicate that 69% resulted from visitors 11 as a hazard at a certain point in time. 11 playing in the water or falling into the water; the 12 12 rest involved rescuers or were of an unknown cause, So my -- my concern here is you're asking me 13 to read -- you know, cherry-pick discussions that --13 end quote. 14 out of context, which -- which would mislead the jury 14 Correct? 15 as to what Mr. Kearney actually said. 15 A. Yes. 16 Q. It would be Mr. Moore's job to object to 16 Q. All right. The 69 percent figure you came 17 something I'm misleading, not yours, sir. 17 up with, does that include instances where rescuers 18 18 Please read page 30, line 15 to 17. were involved in an attempt to rescue a visitor who 19 A. And I need to respond that as the scientist 19 was playing in the water or who fell into the water? 20 here and discussing my opinions and the bases for my 20 A. No. The phrase after the first phrase in 21 21 that sentence mentioning 69 percent, says "the rest opinions, the bases for my opinions are the statements 22 22 from -- from city staff and first responders, and -involved rescuers or were of unknown cause." So 23 and, for example, has lead me to believe that -- that 23 rescuers, including the two rescuers in the 2013 24 24 foam was not a hazard, and so this - this very much incident, would be part of the 31 percent.

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goes to the opinions that I've provided.

Q. Okay. Thank you for clarifying that.

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In the last sentence you state, quote, the presence of foam did not appear to be a causal factor in most of the drowning and rescue incidents, period, end quote.

I read that correctly; yes?

A. Yes.

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- Q. All right. When you use the term "causal factor," what do you mean?
- A. Most incidents, if not all of them, are a result of multiple factors or multiple things that occurred that lead to that injury incident. So those events or processes that helped cause an injury or a fatality would be a causal factor.
 - Q. What do you mean by "causal factor"?
- A. As I just said, you know, an event or process that that could be responsible for resulting in an injury or death.
- Q. In using the term "causal factor" when you analyzed the various 42 drownings, did you determine, of those 42 drownings, in how many instances the presence of foam appeared to be a substantial factor in bringing about either the drowning and/or rescue incident?
- A. I think I indicated --
 - Well at least for the newspaper article only

Q. How many -- You would acknowledge that

drowning -- Excuse me.

You would acknowledge the presence of foam was a substantial factor in bringing about the drownings -- in bringing about two drowning and rescue incidents.

A. No. I just -- You know, as I phrased it in this paragraph, the newspaper article only mentioned foam in one event. Obviously there was mention of foam in the 2018 event as well, but not mentioned in the newspaper article. The fact that foam has been identified as a hazard, I think as -- well as I've said in my report, I don't believe that it is a hazard. In reading the descriptions and changes of concept of the foam as a hazard after the 2018 incident, I wonder whether a illusory truth effect is at play here. You know foam is sort of brought up a number of times, it's a very salient characteristics of two different incidents and, you know, perhaps repeating; oh, foam is a hazard, foam is a hazard, foam is a hazard, makes people think that perhaps foam is a hazard without really doing the analyses of -of, like, such as this. You know, well let's look at, you know, the actual circumstances of each of these

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- 1 mentioned foam in an event description one time. Now 2 we have two out of those -- I believe the -- Maggie's 3 fall was included in the 42 incidents. Yeah. So --4 Well, I believe it was. Which means you have two out 5 of the 42 that seem to have some factor such as foam. 6 You know, another factor that -- that could be looked 7 at is age of the person who went in, which I did not 8 discuss here because age wasn't described -- the age 9 of the person injured or drowned or rescued wasn't 10 described in the newspaper article. But I think I 11 remember reading something else that something like 50 12 percent of the deaths were of young children under the 13 age of 12, if I remember correctly.
 - Q. So when you say --
- A. And so age, you know, could be consideredanother factor, or.
 - Q. When you say the presence of foam did not appear to be a causal factor in most of the drowning and rescue incidents, by -- the converse of that would
- be the presence of foam appeared to be a causal factor
 in some of the drowning and rescue incidents; true?
- 22 A. A small percentage, 2 out of 42, so.
- 23 Q. Some.
- 24 A. Yeah. "Some" is vague, but -- and I guess
- 25 that was most.

As I said in my -- So -- So no, I would not agree with the statement that, you know, foam is a hazard, or -or really was a causal factor in any of these incidents.

events and see whether foam was a critical feature.

- Q. So when you state, "the presence of foam did not appear a causal factor in most of the drowning and rescue incidents," which are the words you wrote, --
 - A. Yes.
- Q. -- what you really meant to say was the presence of foam did not appear to be a causal factor in any of the drowning and rescue incidents; is that right?
- A. Well, yes. I'm describing, you know, the incidents as -- as described in the newspaper article.
- Q. When you wrote --
- A. And so -- where they're mentioning foam related to the 2013 incident. So that sentence -- you know, and in looking at the, you know, sort of the description of events provided in the newspaper talk about things like falling into the river, or canoeing on the river, you know, afraid to -- you know, they got to the rock island and was afraid to come back, so those are various descriptions of some of the incidents described in the newspaper article. So -- So this last sentence, "presence of foam did not

Page 121 Page 123 1 1 appear to be a causal factor," is rele -- is as foam did not appear to be a causal factor in most of 2 related to the description provided by the newspaper. 2 the drowning and rescue incidents. 3 3 Q. Well what you wrote exactly was: "The A. Yes. And as I said, this is -- this is not 4 presence of foam did not appear to be a causal factor 4 intended to be a thorough analysis, but this is the 5 in most of the drowning and rescue incidents." 5 data that is available to me at the time and is more 6 6 thorough and complete than any analyses that Ms. Gill A. As described by the newspaper. 7 Q. Okay. When you say "in most of the drowning 7 appeared to have conducted. 8 8 and rescue incidents," what you're really saying is in Q. Is it intended to be something you relied 9 none of the drowning and rescue incidents; is that 9 upon in reaching your opinions in this case? 10 10 correct? A. I'm sorry, which is? 11 A. Well as I said, as described by the 11 Q. Is this analyses you conducted, which you 12 12 acknowledge is not thorough, something that you relied newspaper. The newspaper only talks about foam as 13 somehow being related to a fall. 13 upon in reaching your opinions in this case? 14 14 O. But --A. Yes. 15 15 A. So in the newspaper accounts there is one Q. Is it something that you would expect the 16 out of the 42. So saying that -- and foam might be 16 jury to rely upon in reaching their decision about 17 17 considered a causal factor in that 2013 incident as 18 18 described in the newspaper. So there's still one out A. I think I have said before, I'm -- I'm -- I 19 19 of the 42 that seems to be somehow related to foam. am presenting information from a human factors 20 So then the presence of foam did not appear to be a 20 perspective to the jury. What they do with that is -21 21 is up to them, so I have no expectation one or the causal factor in most of the drowning and rescue 22 22 incidents is correct, because 41 out of the 42 did not other. I present the information as best I can. 23 23 appear to be related to foam. Forty-one out of 42 Q. And based upon your less -- this 24 24 less-than-thorough analyses you conducted, you did would clearly be most --25 25 conclude that the presence of foam appeared to be a Q. Okay. Page 122 Page 124 1 A. - and not all. causal factor in at least one drowning and rescue 2 2 Q. In par -incident; true? 3 In the first paragraph of Section 7 you 3 A. According to the newspaper reports. 4

- conducted an analyses of the reports of previous accidents and near-miss accidents, in this case drownings or near drownings; right?

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- 8 Q. And you utilized a newspaper report from the 9 Sioux Falls Argus; correct?
 - A. I think it's called the Argus Leader, but yes.
- 12 Q. Okay. And you considered utilizing the 13 Argus Leader to conduct a hazard analysis to be 14 scientifically valid, is that correct, for a hazard 15 analysis?
- 16 A. Yes. It's the same way that other --
- 17 Q. Okay.
- 18 A. -- hazard analyses are performed in 19 companies, say, or industry, where you would look at 20 reports of incidents that had occurred in a certain 21 timeframe. And so those reports provide the data for
- 22 the hazard analyses.
 - Q. And based on your scientific analyses of the reports of drownings and near drownings as derived from the Argus Leader, you concluded the presence of

- Q. According to the newspaper reports from 5 which you conducted your analysis; correct?
 - A. Yes.

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- 7 Q. All right. And the one drowning incident in 8 which the presence of foam appeared to be a causal 9 factor was the incident that occurred in 2013; 10 correct?
- 12 Q. Which we've already discussed as having 13 occurred in approximately the same area as where Maggie Zaiger went into the water; correct? 14
 - A. That's my understanding.
 - Q. Okay. As a general proposition, how many times does a hazard have to manifest itself in the injury or death to a human being before it warrants being acted upon?
 - A. And hazard analyses you don't necessarily look at number of incidents, you look at of all the incidents, you know - Well first you do an analyses of each incident, what appears to be the primary factors at work responsible for causing this injury incident. And then, once you have - once you've

Page 127 Page 125 1 Q. We want those warnings to be effective; 1 identified all of those factors, then you assess the 2 2 correct? frequency of occurrence and the severity of injury 3 that, you know, might occur. 3 A. Yes. Δ Q. In order to determine the effectiveness of 4 Q. Before rendering your opinions did you 5 conduct any analyses that -- of the number of visitors 5 tornado warnings you would typically look at how many to the Falls Park area during the months of February 6 tomadoes there are and whether people respond to the 7 7 and March for the last 10 years? warnings when the tornadoes are present; correct? 8 A. Estimates from the city are that 700,000 8 A. That would be, yeah, one way to do it, yes. 9 9 people visit in a year. Those are recent numbers. I Q. Well if tomado season in the Midwest is May through roughly maybe early September, those would be 10 don't know whether that has been maintained over the 10 11 last 20 or 30 years or not. I have not seen any data 11 the salient months to look at; true? 12 when those visitors are, whether the bulk of them are 12 A. Sure, if those are the times that the 13 13 tornado warnings are put out, so yes. in the summer months or they're spread evenly 14 Q. Well I think most people in the Midwest 14 throughout the year, so I can't answer that question. 15 would know that. 15 Q. So the answer is --Would you look at January to determine 16 16 A. I don't know that --17 whether tornado warnings are effective during the 17 Q. -- no. 18 A. - the information is available. Yeah. 18 month of January in the Midwest? 19 A. Probably not. 19 O. The answer is no. 20 Q. Okay. So if the buildup of foam is in 20 A. That's correct. 21 February and March, it would make sense to look at how 21 Q. Okay. And you are aware that the foam 22 buildup that occurs at Falls Park is a seasonal event. 22 many visitors there are to the park during February 23 and March; correct? 23 A. That's my understanding, yes. 24 A. Sure. 24 Q. And that's what you were told; correct? 25 25 A. That's correct. Q. And it would -- what happens in August would Page 126 Page 128 1 Q. And that is typically during the months of 1 be of minimal, if any, relevance to that analysis; 2 2 February and March; correct? 3 3 A. You know, again, if you're evaluating the A. That's what I've been told, yes. Q. And that would be the relevant time period 4 contribution of foam. 5 to look at, would it not, for an analysis of whether 5 Q. And that's what we're talking about; --6 A. Yes. 6 the foam buildup is a causal factor in any incidents 7 7 at that park, as opposed to looking at the month of Q. -- correct? 8 September. 8 A. Yes. Yes. Okay. Yes. 9 Q. And then you could conduct a valid 9 A. That's correct. Q. Okay. And you've made no effort to -- to scientific analysis of how often foam is a 10 10 11 undertake to determine the number of visitors who go 11 contributing factor in either an accident -- or I 12 should say a death or an injury or a near death or 12 to the park on an annual basis during February and 13 injury; correct? 13 March; correct? 14 A. If you're looking at analyses of foam 14 A. That's correct. 15 specifically, and not in the context of all hazards, 15 Q. And is --A. I did note in my report that a few of the 16 then yes, you'd want to look at data for the relevant 16 17 17 incidents -- of the 42 incidents described in the Q. Are you aware of any allegation in this case 18 newspaper article occurred in February, so. Yeah, 10 18 19 that the entire property of Falls Park is somehow 19 percent. Four out of the 42 occurred in February or 20 hazardous? 20 March when the foam builds up on parts of the river. 21 21 A. Well the --Q. Well let me -- let me give you a 22 hypothetical or an example or an analogy. 22 Q. Are you --23 A. -- risk analyses that were performed looked 23 Nowadays they issue warnings for tornadoes; 24 at, and they should look at the entire park to 24 right? 25 25 evaluate what hazards are in the entire park. A. Yes.

Page 131 Page 129 1 Q. You are aware that our claim is related to 1 Leader has reported? 2 the buildup of foam in Falls Park; yes? 2 A. I did not. 3 3 A. Yes. Q. Do you hold an opinion as to whether or not 4 4 Q. Okay. So I just want to make sure I the presence of foam was or was not a causal factor in 5 understand something. You have conducted an analysis 5 the 2013 drowning incident? 6 6 of 42 incidents based upon what the Argus Leader has A. Yeah. Again, I have not done that analyses 7 reported, but you have not conducted any further 7 for the 2013 incident. 8 analysis into drownings or near drownings occurring at 8 Q. So the answer is no. 9 Falls Park in February or March where foam is alleged 9 A. Yes. 10 to have been present or a contributing factor; is that 10 Q. If the presence of foam was found to be a 11 right? 11 causal factor in the 2013 drowning incident, do you 12 12 A. That's right. hold the opinion or would you hold the opinion that 13 Q. Okay. 13 efforts should have been undertaken to address that 14 A. I'm not aware of any information to that 14 hazard? 15 effect beyond what I described in my report. 15 MR. MOORE: Object to form and foundation. 16 Q. Did you ask for that information? 16 A. My understanding of city staff and -- and 17 A. I have not. 17 risk management efforts they undertook is they might 18 18 Q. All right. And you do agree that the have looked at foam, but did not consider it a hazard, 19 and therefore they did not take any -- or make any presence of foam appeared to be a causal factor in the 19 20 2013 drownings. 20 efforts to address hazard of the foam in terms of 21 21 A. Well -trying to mitigate that hazard. 22 22 Q. Isn't that what your report indicates? Q. Right. I want to --23 A. Again, this statement has to do with factors 23 A. So based on their analyses, then I would 24 identified by the newspaper as somehow related to this 24 have to say that they did not consider foam to be a 25 25 hazard after the 2013 incident and before the 2018 incident -Page 130 Page 132 1 Q. Well --1 incident. 2 2 A. – as – and that is what I am reporting MR. SIEFF: Move to strike. 3 here. So this is a description of hazards according 3 Q. You are a human factors engineer, and also 4 4 are certified in safety matters; yes? to analyses of 42 injury and fatal incidents. That's 5 5 A. I'm a certified ergonomics professional. -- This is the only database that I know about, so I 6 finish with describing, you know, foam is only 6 Q. Okay. And you are -- consult or in the past 7 mentioned in one. I don't know that -- I don't recall 7 you've been asked to perform hazard analyses; correct? 8 8 that the event description said foam is a causal A. I have done that, yes. 9 9 factor, it was just something that seems to be Q. And you've been asked to provide 10 10 recommendations on how to address any particular 11 Q. You had the benefit of all of the law 11 hazard; correct? 12 enforcement reports related to the 2013 incidents --12 A. I have done that, yes. 13 A. Yes. 13 Q. Including things like roller coasters; 14 Q. -- incident; correct? 14 correct? 15 15 A. Yes. And it's true that foam is repeatedly 16 mentioned as a factor in not only the drowning, but 16 Q. Okay. So here's what I would like to know: 17 17 the rescue efforts. Isn't that true? If the City of Sioux Falls came to you in 2014 and 18 18 said, Dr. Nemire, we had this drowning occur -- two A. No. My recollection is --19 19 Q. All right. drownings occur at our park in 2013 and we believe 20 A. -- they mention foam as impeding rescue 20 that the foam buildup was a causal factor in this, 21 21 efforts. But I don't recall, you know, statements to what steps would you recommend, as a human factors 22 22 specialist or expert, to address that hazard? the effect that foam caused Garrett to fall. 23 Q. Did you make any attempt to analyze whether 23 A. Well first I would ask what analyses they 24 24 or not the presence of foam was a causal factor in the conducted to come to the conclusion that foam was a 25 25 2013 drownings, independent of anything that the Argus hazard.

Page 133 Page 135 1 Q. Okay. 1 Q. Would you --2 2 A. I have not been asked to do that for this A. Just because someone thinks, you know --3 Q. Okay. 3 incident, and so I can't and don't want to outline, 4 A. -- of something has a hazard does not 4 you know, all the steps that someone could take. necessarily mean that it is. So I'd want to know what 5 5 Q. You --6 the basis of their thinking is. 6 A. Because I haven't thought about it very 7 7 Q. Okay. much. 8 8 A. And if I was not satisfied with the bases, Q. Yeah. Well you got a lot of experience in 9 9 this sort of thing, and I assume you know how to go then I would conduct my own hazard analyses of the 10 10 about doing a hazard analysis when you're asked to. 11 11 And you did mention that you would look at the reports Q. All right. We'll get to what you would do 12 if you concluded it was a hazard, but before we do 12 from that day, you would talk to the people that day. that I want to ask you what would the proper hazard and you'd try and visit it at the same time. Would 13 13 14 analysis have consisted of? 14 you also do the kind of statistical analysis you did 15 You just testified that you would ask them 15 here --16 if they had done a hazard analyses and would want to 16 A. Sure. 17 know the bases. What would a proper hazard analysis 17 O. -- in this case? 18 at that time have consisted of? 18 And what if -- what if you did that 19 statistical analysis and found out there had been 42 19 A. Yeah. That would take a lot more thought 20 20 and examination of the literature, you know, to drownings or near drownings and only one of them was 21 determine what kind of hazard analyses tasks I would 21 precipitated by foam, or where foam was a causal 22 22 factor? Would you then tell the city that that was undertake, so --23 Q. You --123 not a hazard they had to deal with? 24 24 A. -- and that's not something that I've A. Well as I said at some point earlier today, there are multiple causal factors for most incidents, 25 evaluated up until today. 25 Page 134 Page 136 Q. You said you would ask them about the bases 1 and as with the 2018 incident, there's the -- the 1 for that, and if you were not satisfied that the bases 2 hazard of the cliff which presents a fall hazard, 2 there's the hazard of the turbulent water, there's the 3 3 provided a reasonable foundation for concluding that 4 the foam was a hazard you would conduct your own problem of supervisory control of young children, analysis. As part of the own analysis that -- your 5 there's a number of issues at play, and so foam might 6 6 be one of those. own analysis you referred to, would you review law 7 Q. Sure. enforcement records? 8 A. Sure. 8 A. I would evaluate whether the incidents I'm 9 looking at, you know, whether -- whether truly, you Q. Would you interview law enforcement 9 personnel who responded to the scene? 10 know, foam is -- you know, was an issue at -- at --1.0 11 A. I might. 11 sort of providing -- or hiding the nature of a hazard. 12 Q. Would you have interviewed witnesses? 12 13 13 So if you did determine, after doing your A. Yes. 14 own analysis, that one of the 42 incidents involved a 1.4 Q. Would you have visited the site under same 15 situation where foam was a causal factor, would you be 15 or substantially similar circumstances? of the mind that because it was only one of 42, there 16 A. Yes. 16 17 was no need to address the situation? 17 O. What else would you have done? 18 A. Yeah. Again, that has not been my task to 18 A. Well there's other issues at play, you know, 19 there's - as I've mentioned. And so at issue is 19 actually, you know, conduct a hazard analyses beyond which -- which causal factors are primary, which are, 20 the one that I did during my site visit, so --20 21 you know, closer to the -- you know, to the event, you 21 Q. Would you do --22 know, which are farther away; which of these, if 22 A. -- in this kind of effort, if a client asked climinated, you know, might have eliminated the hazard 23 me to conduct a hazard analyses then I would be -- you 23 24 or the injury incident. It's -- You know, so I would know, go through a number of different steps, probably

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look at all of those issues.

several different types of analyses and perform those.

Page 139 Page 137 1 The information I have seen right now does 1 A. (Witness reviewing documents.) Well yes, 2 not indicate to me that foam is a hazard, so I don't 2 there are more than just those people, adults with 3 - I can't imagine that if I had done more extensive 3 children at the park, there are other people that I 4 4 hazard analyses that you're trying to get me to -- to did not make any effort to count them. 5 describe, I don't know that I would have identified 5 Q. I'm trying to understand if there were 6 foam as a hazard in the 2013 instance either. 6 hundreds of people there, 20 people, 500; how busy was 7 7 the park? Q. As a statistical matter, does the fact that 8 8 out of 42 incidents only one incident appears to be A. It's hard to say. There was a fair number 9 9 related to a particular causal factor mean that that of people around. The cafe was pretty full. 10 10 one incident does not need to be addressed going Q. Now you went to the park with who? 11 forward? 11 A. I was there with a research assistant, I met 12 12 A. No. Ms. Carpenter, I met Mr. Mieras, met Detective Bakke. 13 13 Q. All right. Thank you. I believe that's it. 14 14 Q. Who's the research assistant? Now you referred to the area --15 15 A. His name is Daniel Nemire, he's my son. A. You didn't let me finish my response. 16 Q. You said "no." 16 Q. Okay. Page 5 of your report you state: I 17 17 conducted a site inspection on June 11, 2019. During A. And I was taking a breath so I could --MR. MOORE: That's all right. 18 18 the site inspection I was accompanied by -- part of 19 THE WITNESS: All right. 19 the time by Melanie Carpenter, Kirby Mieras, and Tim 20 Q. When you went to the falls on July 11, 2019, 20 Bakke. Why did you not identify your son? 21 21 was that your first visit to Falls Park? A. It was an oversight. 22 22 A. Yes. Q. Was he there in an official capacity? 23 Q. Was that your first visit to South Dakota? 23 A. Yes. 24 24 Q. And you read your report before you A. Maybe. I might have driven through. 25 submitted it to Mr. Moore? 25 Q. Okay. And what was the weather like on the Page 138 Page 140 day you were there? A. Yes. 2 A. What time of day? 2 Q. And this was an oversight? 3 Q. Let's start at --3 A. Apparently so. 4 Well that's a good question. 4 Q. Any other oversights in your report we 5 5 should know about? How long were you there? 6 A. About 12 hours. Well, no, 10 altogether 6 A. Not that I'm aware of. 7 maybe. So in the morning it started out clear, I 7 Q. Did your son take notes from -- during the 8 8 visit? don't know, maybe '60s, '70s weather, was not wearing 9 9 a jacket, and then about 5 or 5:30 a big storm rolled A. Yes. 10 10 O. Where are those notes? in for a couple of hours. 11 Q. Rainstorm. 11 A. Some of them I transcribed on the computer, 12 12 A. Hail and some of them I have here. 13 Q. No snow. 13 Q. Was he writing them or typing them into a 14 A. - and rain. 14 machine of some sort, like a computer? 15 Q. No snow. 15 A. He was hand writing --16 A. No snow. 16 Q. Okay. 17 There was no snow on July 11th, '19; was 17 A. - on a yellow legal pad. 18 18 Q. Were -- Were you taking notes? there? 19 A. Not that I noticed. 19 A. Yes, I also took notes. 20 Q. Okay. How many people did you count at the 20 Q. Can I see these notes? 21 21 A. The notes I took park being there while you were there? A. Well I only counted families with small Q. All the notes from that inspection, please. 22 22 23 children that were around the river. 23 A. Right. They are - Some of the notes I took 24 24 Q. Were there more than those families with are transcribed in the interview document that 25 25 small children present in the park? apparently was sent to you, and then other notes are

	Page 141		Page 143
1	described transcribed into a document called	1	Q. White and fluffy?
2	"Notes."	2	A. Sure.
3	Q. Where are the handwritten notes that existed	3	Q. So that's your description of the of it;
4	before they were transcribed?	4	right? You're not You don't
5	A. I don't keep those.	5	You don't have a basis from anybody's
6	Q. They were thrown away?	6	testimony that the snow appeared to be white and
7	A. Yes.	7	fluffy; do you?
8	Q. Okay. Do you have the transcription?	8	A. Testimony is is absent descriptions. All
9	A. Yes.	9	they say is that the big pile of stuff that looked
10	Q. Can I see it, please?	10	like snow. So big piles of snow might be considered
11	A. [Handing.] The top of the page it says Site	11	might be described as fluffy.
12	Visit Notes or something like that.	12	Q. By who?
13	Q. In your site visit notes under 3F you put	13	A. Anybody looking at a big pile of snow.
14	"NB," which I believe is a note, question. Photos	14	Q. Anybody
15	show little snow on ground; why would someone think	15	A. But no, none of these members of these two
16	there was thick snow built up on one location on	16	of this party provided any descriptive
17	river, question mark.	17	characteristics of this pile of stuff.
18	Read that correctly?	18	Q. Did anyone of this party provide any
19	A. (Witness reviewing document.) Which one is	19	testimony as to the basis for their belief that it was
20	this?	20	snow, a pile of snow?
21	Q. I think it's number 3. I don't have a copy	21	A. No.
22	of it so I can't look at it.	22	Q. Okay. And how much time have you spent in
23	A. Yeah. Photos show little snow on ground.	23	the Upper Midwest, sir?
24	Q. And you only observed little snow on ground	24	A. Define "Upper Midwest." What's your
25	when you were there; right?	25	definition of "Upper Midwest"?
	Page 142		Page 144
1	A. Well these the photographs I'm referring	1	Q. I have the same definition as everyone who
2	to here are the photographs taken on the day of the	2	lives here has.
3	incident.	3	A. Okay.
4	Q. And the question you pose, then, it's a	4	Q. North Dakota, South Dakota, Minnesota, Iowa.
5	thought question, a working question, I understand.	5	How much time have you spent in the Upper Midwest?
6	Why would anyone think there was snow on the river	6	A. Yeah, probably driven through Iowa.
7	when there is little snow on the ground; right?	7	Q. Winter, fall, spring or summer?
8	A. That's correct.	8	A. It would have been summer.
9	Q. Did you get an answer to that question?	9	Q. Okay. Have you spent any time at all in
10	A. Well, no. I still wonder about it because	10	North Dakota, South Dakota, or Minnesota in the
11	the you know, if if this family, these two	11	winter?
12	families thought that the foam piled on the river was	12	A. No.
13	snow, it would be odd to see such a huge pile of snow	13	Q. How often does it snow where your office is
14	and not see snow anywhere else. And the other	14	located in San Francisco?
15	photographs taken the day of the incident show small	15	A. Rarely, if at all.
16	patches of snow that might be maybe an inch tall, an	16	Q. So you're not used to seeing snow piles, is
17	inch high, but no certainly no mounds of snow	17	that fair'?
18	anywhere else. So it's I don't know, it was just	18	A. Well that presupposes that I've never
19	hard to imagine how someone would think that the 10 to	19	visited areas that do have snow.
20	15 foot pile of white fluffy stuff would be snow.	20	Q. I just asked you if you're used to seeing
21	Q. It was white	21	snow piles.
22	Who described it as "white fluffy"?	22	A. I have seen snow piles, yes.
23	A. Well if you think it's snow, snow is white,	23	Q. Okay. Where'?
24	it's not a dense material, you know, so, you know,	24	A. Parts of California in the Sierra that has
25	it's snow could be described as white and fluffy.	25	snow which I visited a number of occasions.

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1 2	Q. In the mountains?	1	circumstances would have been substantially similar to
i	A. Yes.	2	what existed on March 18, 2018, other than the fact
3	Q. Have you seen accumulations of snow in the	3	you hadn't been hired by anybody; correct?
5	Upper Midwest?	5	A. Well I would I would think that would be a critical reason.
6	A. Well, as I said, I've maybe just driven	6	
7	through the states that you described, and it was in summertime and so I would not see any snow in the	7	Q. I'm just asking the question. Is that true? A. That would be you know, why?
8	Upper Midwest.	8	MR. SIEFF: Okay.
9	Q. Is it your opinion that the party that day	9	MR. MOORE: Counsel, I don't want to
10	had no basis to believe that the pile of white stuff	10	interrupt, but just for the record, we've been
11	was snow?	11	referring to the date of the site visit as July 11th,
12	A. That's not what I said.	12	2019, and I think it's June 11, 2019.
13	Q. I'm asking you a question.	13	MR. SIEFF: I apologize, and you're
14	A. I wonder how they could think it was snow.	14	absolutely correct, Jim. I If I meant no ill
15	Q. Okay.	15	by that.
16	A. I'm not saying that they shouldn't see this	16	MR. MOORE: Understood. I just wanted to
17	as snow, it's just a curiosity. I do not understand	17	clarify it.
18	how they could view that as snow, given the absence of	18	BY MR. MOORE:
19	snow everywhere else on that day.	19	Q. So when you went to the park on July 11,
20	Q. You did see snow in the photographs from	20	2019
21	that day.	21	MS. YOEDICKE: June.
22	A. Yes.	22	MR. SIEFF: Jesus, I just did it. When you
23	Q. So when you say "the absence of snow,"	23	I'm going to write it down.
24	that's not technically correct; is it?	24	(Laughter.)
25	A. The absence of piles of snow is what I	25	BY MR. SIEFF:
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1	should have said.	1	Q. When you went to the park on June 11, 2019,
2	Q. Of piles of snow.	2	two people from the city went with you, Mr. Mieras,
3	A. Yes.	3	and Detective Bakke.
4	Q. Okay. Thank you.	4	A. I met them there.
5	When you visited the park on July 11, 2019,	5	Q. Okay. They met you there.
6	how was it determined who was going to accompany you?	6	A. Yes.
7	Let me put it	7	Q. Okay. Did you talk to any city employees
8	A. I don't understand the question.	8	before you got to the park?
9	Q in English for you.	9	A. The only people I talked with before were
10	You visited the park on July 11, 2019;	10	Mr. Moore and people from his office.
11	correct?	11	Q. Other than what you may have talked to Mr.
12	A. That's correct.	12	Bakke and Mr. Mieras about on June 11, have you
13	Q. Several months after the season for foam	13	conducted any interviews of city employees?
14	buildup in the area; correct?	14	A. I called Kelby Mieras sometime, maybe a few
15	A. Yes.	15	days before my report was due, because I realized I
16	Q. You saw very little foam buildup; true?	16	did not have information about how long this foam
17	A. Certainly not as much as I saw in the	17	buildup has been occurring, so I called him to ask him
18	photographs.	18	if he knew, and he told me that at least since I
19	Q. You did not visit the park at a timeframe	19	think there's a note there in the in my notes
20	which provided a substantially similar set of	20	document about that phone call. I think he told me it
21	circumstances as that would have existed on March	21	was since at least 1980 or 1984, something like that.
22	18th, 2018; true?	22	Q. Well the the notes the transcribed
23	A. That's correct.	23	notes I'm looking at state they're interview
24	Q. And nothing prevented from you from	24	transcripts from the site visit, not from a later
25	visiting the park during a timeframe when the	25	phone call, but

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1	A. Do you still have my notes document?	1	enough that an engineer was on site when we were
2	Q be that as it may.	2	talking about all this and he had blueprints of the
3	A. I have it.	3	platform construction, and he confirmed that a large
4	Q. Be that as it may.	4	outcrop outcropping showed in one of Ms. Melendez's
5	Anybody else you've interviewed personally?	5	photographs had been removed, and he identified, based
6	A. Yeah. May 31st is when I talked with Mr.	6	on blueprints, where that outcropping had been.
7	Mieras.	7	Q. Did he tell you
8	Q. All right. Anybody else you've interviewed?	8	What was that engineer's name?
9	A. No.	9	A. I don't believe I wrote it down, didn't get
10	Q. Have you been refused access to anybody you	10	that information.
11	have wanted to interview?	11	Q. That wasn't important to you?
12	A. No.	12	A. Not really.
13	Q. Have you made any attempts to interview	13	Q. Okay.
14	Crissy Melendez?	14	A. What was important was he was the engineer
15	A. No.	1.5	and he had the blueprints and seemed to know what he
16	Q. Who Who	16	was talking about.
17	Did you have any input into selecting Mr.	17	Q. Did he tell you when this rock outeropping
18	Micras and Detective Bakke to meet you at the park?	18	was removed?
19	A. No.	19	A. Specifically what date, no.
20	Q. Do you know who made that decision?	20	Q. Did he tell you what he understood to be the
21	A. I do not.	21	reason for the removal of the rock outcropping?
22	Q. Did you request that other employees of the	22	A. I believe he said something that it was in
23	city meet you at the park other than Mr. Micras and	23	the way of the pla the viewing platform, where they
24	Ms and Detective Bakke?	24	wanted to put the viewing platform.
25	A. No. I think either Mr. Moore or Ms.	25	Q. All right. During your site visit on June
	Page 150		Page 152
1	Carpenter thought it would be helpful, and I realized	1	11, 2019 you identified certain hazards present at
2	it would be helpful just to to make sure that we	2	Falls Park; correct?
3	identified the area where Maggie fell and the	3	A. Certain hazards in the area, in the subject
4	Detective Bakke had a good understanding of that. And	4	area of Fall Park Falls Park.
5	so I thought it was a good idea and I said, yes, that	5	Q. I understand.
6	seems like a good idea.	6	A. I did not evaluate hazards in the rest of
7	Q. And Detective Bakke freely answered whatever	7	the park beyond that one area.
8	questions you had?	8	Q. I really only want to talk about the area
9	A. Yes.	9	proximate to where
10	Q. And appeared truthful to you?	10	A. Just clarifying.
11	A. Yes.	11	Q the 2013 drownings occurred and where
12	Q. And was helpful to you?	12	Maggie went in.
13	A. Yes.	13	A. Okay.
14	Q. And during your site visit he pointed out	14	Q. And you Detective Bakke eventually
15	where he remembered the incident as having occurred?	15	identified the area of the rocky ledge from which
16	A. It wasn't as simple as that.	16	Maggie fell.
17	Q. 1 understand. He needed some photographs.	17	A. Yes.
18	A. And	18	Q. Okay. And your inspection of that area
19	Because the area has substantially changed	19	confirmed that the height of the rocky walls above the
20	since the photographs on the date of the incident and	20	river presented a fall hazard; correct?
21	the day of our visit. So it was a combination of	21	A. That's correct.
22	Detective Bakke trying to refresh his memory as he was	22	Q. And that the depth and flow of the river
23	standing on the edge of the river, showing him	23	presented a drowning hazard; correct?
24	photographs that Ms. Melendez had taken, showing him	24	A. Yes.
25	photographs from the police files, and we were lucky	25	Q. Now when you were standing

Page 153 Page 155 Well I'll strike that. 1 Did you stand proximate or near to the rocky 1 ledge that Detective Bakke identified? 2 What else did Detective Bakke tell you 3 3 A. How would you define "near"? relative to the height of the foam? 4 4 Q. Within twenty feet. A. I'd have to review my notes. (Witness 5 A. Of course. 5 reviewing documents.) 6 6 Q. Okay. And when you were there the river was He said that the foam that was on Maggie's 7 7 side of the river was about two to four feet tall freely flowing; correct? 8 above the water, and on the other side of the river it A. Yes. 9 Q. And you could hear the river from where you 9 was about 20 to 30 feet tall. 10 were standing when you were within twenty feet of the 10 Q. And you've seen photographs that were taken 11 rocky ledge; correct? 11 on the day of Maggie's death in the area? 12 12 A. Yes. A. Yes. 13 Q. And isn't it true that on the date where 13 Q. Showing you what's been marked as Exhibit 14 Maggie fell into the river, the foam created a 14 17. Have you seen this photograph before, sir? 15 situation where you could not hear the current of the 15 16 river in that area? 16 Q. This is Fischer Exhibit 17. That foam 17 17 appears to be somewhere between 10 to 20 feet in A. That's what's been reported, yes. 18 18 Q. Isn't that what Detective Bakke told you height; does it not? 19 19 directly on June 11, 2019? A. In this -20 20 From this view, which is downstream of where A. Yes. 21 21 Q. That you could not hear the river? Maggie fell, it appears as if the foam is - well 22 22 A. That's what he reported, yes. maybe in the center it could be - yeah, it could be 23 Q. That it was calm and serene? 23 nine or ten feet tall. 24 24 Q. Okay. You've seen this photograph, which is A. Yes. 25 marked Kearney Exhibit 22? 25 Q. And that means that any auditory queueing Page 156 Page 154 that one might otherwise expect from the noise of the 1 A. Yes. 1 2 Q. That's a law enforcement officer standing on 2 river was not present on the day Maggie went in; 3 correct? 3 the rocky ledge from which Maggie went into the water? 4 4 A. No. 5 Q. Are you prepared to testify under oath that 5 Q. All right. And isn't it true that Detective 6 Bakke told you on June 11, 2019 that foam obscured the 6 you -- based on that photograph, that you can see the edge of the rocky ledge? 7 ledge, the rock ledge Maggie was standing on? 7 8 8 A. Well as I tried to distinguish in my report, A. Yes. 9 Q. And that if she had stepped forward it would 9 there are multiple rocky ledges here. You know, so if have been into the foam. 10 you look at where this officer is standing, he is 10 11 11 standing on maybe - maybe four tiers down from the Q. And that if the foam obscured the ledge, she 12 top of the canyon wall. There are multiple levels of 12 13 would not have been able to see where the drop-off 13 rocky ledges, and that's something that has not been 14 clear in any of the statements that I have read about 14 was: correct? 15 the foam obscuring the ledge. And you can see that 1.5 A. From where --16 here from where the officer is standing, you can see 16 Yes. From where she was standing, yes. 17 that there is foam covering rock, but you can also see 17 Q. And consequently, the fall hazard you 18 that, you know, maybe a foot above where the officer identified, the height of the rocky walls, would have 18 19 is standing there are sections of the ledge that are 19 been obscured by foam; correct? 20 A. No. 20 not covered by foam. 21 Q. And you're looking at this photograph today, 21 Q. The --22 August 20th, 2019; correct? 22 Didn't he tell you that she couldn't see the 23 rock ledges below because they were covered by foam? 23 A. That's certainly true. 24 Q. In hindsight; correct? 24 25 A. Not at all. 25 Q. And that consequently the foam was acting --

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Q. With --

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After rendering opinion that you don't believe that this foam constitutes a hazard; correct?

- A. I -- I think you're mischaracterizing everything that I've said here.
- Q. Do you not believe that your opinion on whether or not that foam was covering the drop-off is just a tad bit influenced by the hindsight bias?
 - A. Not at all.
- Q. All right. So when -- when Detective Bakke told you that from her standing location she can't see rock ledges below because they are covered by foam --
 - A. I'm sorry. Say that again.
- Q. When Detective Bakke told you, according to your own notes, quote, from her standing location she can't see rock ledges below because they are covered by foam, end quote; did you give his statement credence, or disregard it?
- A. I asked a number of questions to clarify my understanding, because I suspected that his earlier description of -- of foam covering the rocks where Maggie was standing applied to the lower level of rocks and not to the top layer of rocks.
- Q. Did you write that down in your notes anywhere?

level of rock. You can also see that there is -- you

- 2 know, clearly there's one -- a top layer of rock here
- 3 at the bottom of the photograph, and then as you move

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- forward in the photograph there's a drop-off of a few
 - inches and there is another level of rock ledge. So
- 6 it's a scalloped wall with several levels of 7 projecting rocks that -- that create ledges.
 - Q. Can you tell me where the water is in Exhibit Number 22?
 - A. It's under the foam.
 - Q. How do you know that?
 - A. Because there's nowhere else that the river could be except in that area.
 - Q. Can you tell me exactly where the foam ends and the river starts?
 - A. That I don't know.
 - Q. Because the foam is covering it; right?
- 18 A. Well --
- 19 Q. Isn't that correct?
 - A. The -- You can also see from Exhibit 22 that some of the rocks are partially covered by foam but not completely covered by foam. Since I was not there then, or -- or at any time of high foam, I do -- I don't know how many other levels of rock ledges there are. I would not expect a shear drop-off there, but

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- A. Yes, I did. He clarified that the top layer of rocks were not covered by the foam.
 - Q. I'm sorry. Do you have this note in front of you, sir?
 - A. Yeah.
- 6 Q. Can you tell me --
 - A. Item number 3, the last phrase. However, the foam did not obscure higher ledges at top of canyon wall.
- 10 Q. Did Detective Bakke call this area a canyon?
- 11 A. I don't believe so.
- 12 Q. Okay. That's your words.
- 13 A. Yes.
 - Q. Okay. And Detective Bakke told you that it did not obscure higher ledges of the rock outcropping.
- 16
 - Q. Can you point to any photograph and tell me where -- which rock outcropping he's referring to as not being obscured?
- 20 A. Yeah. In Exhibit 22 you can clearly see 21 that the officer here --
- 22 Q. No, no.
- 23 A. - is standing below some level of rock, and 24 you can see that because you cannot see all of his 25 shoes. That tells you that he is standing below some

- Page 160
- 2 know, lower down that are obstruct -- or the view of
 - those are obscured by the foam or obstructed by the

-- and there could be, you know, multiple levels, you

- foam, so I can't tell. You can tell that there's
- 5 rocks poking up through the foam. Exactly where the
- 6 edge of the rock -- this particular rock ledge is and
- 7 where the next rock ledge is, if there is one, I could
- 8 not tell you.
 - Q. Isn't it true --
- 10 A. But I can tell you, from looking at that 11 photograph, that the foam obscures some of the rocky 12 ledges, which would indicate that the foam might
- 13 obscure lower rocky ledges, and therefore appreciating
- that fact would tell anybody thinking about walking
- 14 15 further out on the rocky ledges should be careful,
- 16 because they can't really appreciate where the rock --
- 17 lower rock ledges are because they might be obscured
- by foam, or there just might be nothing but foam and 18
- 19 river under there.
- 20 Q. So it's your testimony that the fact that 21. the foam is covering something should tell someone 22 that it's covering something dangerous; is that right?
 - A. That the foam is incompletely covering some of the rocks, you can tell that from that exhibit, would indicate that there might be more rock under the

- foam if you go further out toward the middle of the
- 2 river, or there might not be anything, you don't know,
- 3 and therefore you should take some -- some caution if
- 4 you were to decide that you want to step further out
- 5

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- Q. Are you saying that a person should never walk on snow or foam ever?
- 8 A. I didn't say that.
- 9 Q. Okay.
- 10 A. As I said, I said you should take some --
- 11 some caution or proceed more cautiously. The - And
- 12 people do. People walk on ice, you know, people walk
- 13 on mud, and they change their gait accordingly; take
- 14 shorter steps, they walk more slowly, their stance
- 15 widens. Those are precautions that we take when we
- 16 think that we're going -- about to walk on anything
- 17 other than a solid and stable surface.
- 18 Q. You state in your report: There has been an
- 19 implied claim that it would have been safe for Maggie
- 20 to step on the piled up foam, whether perceived as
- 21 foam or snow. Neither could be safe. You then go on
- 22 to state that what few patches of what might have been
- 23 snow on the ground elsewhere. Based on that an
- 24 attentive and reasonable person would most likely not 25
 - surmise that a pile of soft white stuff on the river

it's okay to step on foam.

2 Q. Or snow.

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A. Or snow, in this situation.

4 And that is based on the visual queues 5 available about that surface. So that foam can in no

- 6 way be interpreted as a solid, stable surface. Just
- 7 the visual characteristics are such that it would -
- 8 it would -- it would be perceived as something as less
- 9 dense as, say, a rock ledge, and that if you were to
- 10 step in the snow -- I guess two things. One, if it
- 11 were just snow then you would need to step more
- 12 carefully because the snow itself has -- provides
- 13 variable surface of support. So you step on the snow,
- 14 you might sink a little bit, you might sink a lot, and
- 1.5 what we do when we're stepping into an area where
- 16
- we're not sure of where the surface of support is, 17 where we knowingly step into an area where there's no
- 18 known surface of support, is we lower our leg very
- 19 slowly, in -- and in a controlled manner.
- 20 So that's what would happen if someone who's
- 21 paying attention to the lump of snow that they're
- 22 about to step onto is, I don't know if that's going to 23
- be two inches or 10 inches. In the case of Exhibit
- 24 22, you know, there's some areas where you can make a 25
 - guess that an area under one part of foam might be

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- 1 was snow.
- 2 What do you base that on? What are your
- 3 fact --

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- 4 What facts do you base that conclusion on?
 - A. Where are you reading from?
- 6 Q. Page 8 and 9 of your report.
 - A. Well, okay. Shall we take each sentence at
- 8 a time? Which particular sentence do you have a
- 9 question about?
- 10 Q. Number 8 at page 8. You -- Your conclusion
- 11 for page 8 --
- 12 A. Right.
- 13 Q. Excuse me. Item 8 -- h on page 8 and 9 --
- 14
- 15 Q. -- is that no attentive and reasonable
- 16 person would have an expectation that the foam or
- 17 other soft material piled on top of the river would
- 18 support body weight. And I'm -- I would like you to
- 19 tell me all the facts upon which you base your
- 20 conclusion in -- on page 8 and 9, paragraph h.
- 21 A. Well that's - that's why it might be more
- 22 helpful to -- because there's a number of sentences in
- 23 section - subsection h, and so - so the statement
- 24 that you appear to have a question about, or a concern 25
 - about is that people should have no expectation that

- rock, and it looks as if there's maybe two inches of
- 2 this white stuff and maybe it's okay to step there
- 3 because it looks as if the sur -- the rock surface is
- 4 two inches below. However, that's assuming a uniform
- 5 edge, and it's clear in this area of the river and
- 6 other areas of the river that the edge is not uniform.
- 7 So it would be risky to step onto any foam that's in
- 8 this area without being -- without first cautiously
- 9 lowering your foot so that if there is not a solid and
- 10 stable surface two inches below where you think it is,
- 11 then you can still maintain your balance and not fall 12
 - Q. Wouldn't it be just better to put a sign up
 - that says, "stay away from the foam"?
- 15 A. Again, if the foam is considered the hazard
- 16 here, and I think the hazard here is -- is not
- 17 necessarily the foam but it's the jagged edge, you
- 18 know, is anywhere along here -- and so caution needs
- 19 to be taken when you approach that. And in this
- 20 particular case, caution must be taken by the adult
- 21 person monitoring the behavior of the younger child
- 22 and evaluate the potential hazards in the area where
- 23 the child seems to be heading or wanting to go. 24 Q. When did the ice go off -- Or excuse me.
- 25 Do you know if this river freezes over in

	Page 165		Page 167
1	this area?	1	foam is covering the rocks, that that creates a
2	A. I don't know. Mr. Mieras seemed to think	2	hazard; is that correct? I just want to understand
3	that ice was visible in some of the photographs that	3	what you're saying.
4	were taken on the date of the incident. When I look	4	A. Well I think it's an open and obvious
5	at it I don't see that it's ice at all.	5	hazard.
6	Q. Well we're looking at a very small area. My	6	Q. Okay.
7	question to you is: Do you know, as an expert in	7	A. I think it's readily apparent that the edge
8	these human factors things, whether or not this river	8	of the river is jagged, it's difficult to predict
9	freezes over either above the falls or below the	9	where that is, you it's difficult to predict, if
10	falls?	10	you were to stand on the edge of that rocky ledge,
11	A. I've been told that it does freeze over in	11	whether that edge would give out from underneath you.
12	some areas.	12	Q. So it is a hazard, it's just one that people
13	Q. All right. Do you know how thick the ice	13	could see and do something about.
14	gets below the falls?	14	A. That's right.
15	A. I do not.	15	Q. Is that correct?
16	Q. Do you know if it reaches a level a	16	So if the foam covers the rock that does
	thickness where it's safe to walk on?	17	constitute a hazard, but one that you consider to be
17		18	an open and obvious one; true?
18	A. I do not.		A. Well both hazards are open and obvious.
19	Q. What is a safe thickness of ice to walk	19	•
20	upon?	20	Q. The rock, and the foam covering the rock.
21	A. I don't know.	21	A. That's correct.
22	Q. Do you think it's ever safe to walk on ice?	22	Q. Okay. Now here's a question for you. Lakes
23	A. Sure.	23	around here freeze over. Are you aware of that? You
24	Q. Okay. And do you know when the ice went out	24	don't know?
25	in the area of Falls Park in 2018?	25	A. I won't dispute that.
	Page 166		Page 168
1	A. When the ice what?	1	Q. Isn't Okay.
2	Q. Went out. Do you know what that term means?	2	And that happens every single solitary year,
3	A. Is that a South Dakota term for	3	they freeze.
4	Q. It's an Upper Midwest term for when the ice	4	A. Okay.
5	is no longer present on water.	5	Q. And around here they put up signs early in
6	A. Surc. Okay.	6	the season saying, don't go on the ice.
7	Q. When did it go out?	7	A. Okay.
8	A. I have no idea.	8	Q. Can you think of any reason why they would
9	Q. Okay.	9	need to do that?
10	A. But whether	10	A. Well I would assume because the - it's
11	Q. Do you know what	11	difficult to determine, from looking at the surface of
12	A. If there	12	the ice, how thick the ice is and whether it would
13	Q. I'm asking I'll ask a couple questions.	13	support your weight.
14	A. Sure.	14	Q. You're assuming that.
15	Q. Do you know what the coldest temperature was	15	A. Not having
16	in the month of March in Sioux Falls in 2018?	16	Q. You're guessing.
17	A. I do not know.	17	A analyzed, you know, those kinds of things
18	Q. And you acknowledge that the rocky ledge is	18	and how much thickness, from my experience looking at
19	a hazard; correct?	19	ice, I can imagine that it might be difficult to to
20	A. Yes.	20	determine the thickness of the ice and and whether
ŀ		21	the it's dense enough to support one's weight.
21	Q. And you acknowledge that if the water is	22	Q. I guess my point was: Aren't there
			Q. I guess my point was. Attorication
22	under in the river, that's a hazard;	1	
23	A. Yes.	23	occasions, sir, where it's still prudent and
1		1	

Page 171 Page 169 A. Well, on one hand you might think that you Q. Right. And --2 2 cannot have too many warnings. If there's - If A. So the explanation for that, if I can 3 someone could get injured with this product or in this 3 finish, environment, then it could be helpful to provide a 4 Q. Sure. 5 5 warning about that. On the other hand, if you have A. - because you seem to be really interested 6 warnings about -- you know, for every situation, then 6 in this, is the entrance to the deck from the driveway 7 7 you can have too many warnings and people will ignore it - is where the yellow caution tape was, but they 8 8 all of them. So it's important to be judicious about did not provide a lock on a door and so it was 9 9 possible to come out the front door and encounter the what warnings you put up. 10 Q. Haven't you in fact testified in cases where 10 missing railing, which is why the - the -- you know, 11 11 you opined that it was necessary to provide a warning you needed a warning, you know, at that location to 12 12 notwithstanding the fact that the hazard at issue was show that there is a missing railing here, or there's 13 13 open and obvious? -- there's something that you should pay attention to. 14 14 A. Not that I recall. And that's why the caution tape at the entrance to the 15 15 Q. Do you recall testifying in the Yglesias deck was insufficient, because - because they hadn't 16 16 case? addressed the -- the actual hazard, which is 20, 30 17 17 A. Yglesias, yes. feet away. 18 18 Q. That yellow caution tape was needed to warn Q. But was still in plain sight. 19 19 Ms. Yglesias of the edge of a deck where the railing A. Well it was absence of sight. You know, 20 had been removed? 20 given the expectation for a railing, then we don't 21 A. Yeah, and that's because there's expectation 21 notice when it's gone. You know, it takes four to 16 22 22 for a railing, and they removed the railing. times longer to - to notice something that is counter 23 23 Q. And it wasn't open -to one's expectation than it is to notice something 24 A. So this is --24 that is consistent with your expectation. 25 If I could finish? 25 Q. Even though it was at her own home. Page 170 Page 172 1 Q. Please. 1 A. Especially because it's at her own home. 2 2 Q. Well -- And it's -- your opinion in that A. You know, so this is a deck that on that 3 side was maybe 6 to 8 feet above the ground, and so at 3 case has -- is consistent with your belief that one of 4 issue there, as these people were familiar with the 4 the main purposes of warnings is to inform users about 5 deck, they had lived there, it is common practice for the presence of a hazard of which they may not be 6 6 decks to have railings, and when you -- when you -aware. 7 7 when you -- when you get in the way of those A. Yes. B Q. And you continue to hold that belief; expectations, when you do something that counters an 9 expectation in built environment, then you need to 9 correct? 10 10 A. Yes. provide a warning about it. 11 11 Q. And if a person is not aware of a hazard, a So in that case there was a railing, the 12 people who lived there knew that there was a railing, 12 warning may be called for; correct? 13 13 A. That's correct. and for however long I forget in that case, you know, 14 the construction folks removed the railing and that -14 Q. And the warning needs to comply with certain basic, fundamental principles of human-factors 15 that created a hazard, and that's something that 15 16 should have been warned about because it countered the 16 engineering; correct? 17. expectation of people using the area. 17 A. In order to be effective, yes. 18 18 Q. In order to be effective; correct? Q. Sure. And in that case there was also a 19 19 piece of yellow caution tape that was placed across 20 the entrance to the deck which you opined was not 20 Q. All right. One of which is it needs to be 21 enough warning to tell this woman that a railing that 21 close temporally to the hazard itself; correct? 22 22 had been removed from a deck constituted a hazard. A. Yes. 23 23 Q. And it needs to specifically warn of the A. Right, -24 Q. True? 24 hazard at issue; correct? 25 25 A. - because they're two different places. A. Yes.

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- Q. In order to --
- A. If it's a hidden hazard, yes.
 - Q. If it's a hidden hazard; --
- 4 A. Right.

5 Q. -- correct?

Or if it's a hazard of which a person maynot be aware.

- A. Which is a hidden hazard.
- Q. Right. And -- And hazards at -- sometimes can be open and at other times cannot; correct?
 - A. I don't know what that means.
- Q. Okay. Well if you have a roller coaster
 which has part of the roller coaster at the bottom
 where the people are upside down and their legs are
 hanging down, --
 - A. Right.
 - Q. the fact that their legs are hanging down would be open and obvious to someone when they go—the roller coaster goes through that part of the roller coaster.
 - A. If you had actually read that paper, I actually had maybe three or four papers about that same case, and it is not an obvious hazard because people think about roller coasters as the cars on top of the track, and at issue in that particular case was

people who come to Falls Park during February or March

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- 2 may interpret the white foam stuff -- white stuff as
 - being?
 - A. Have I done any studies?
 - O. Yeal
 - A. No.
- Q. Okay. Have you done any studies to analyze whether or not people approach the white stuff on the river during the February and March months at Falls
- Dorle?
- 11 A. No.
- Q. So whether or not the white stuff that
 accumulates below the falls at Falls Park every year
 in February or March con -- attracts people closer to
 the bank is not something that you've conducted any
- 16 scientific study of; is that correct?
 - A. Well I think you're mischaracterizing what I said about understanding this pile of white stuff as snow and -- and wondering how that could come about. So that pile of snow is -- you know, did not -- or a -- pile of white stuff did not occur without a context, and the context in this case is, at least from the photographs that I've seen, there were very few places that had any snow, and those patches of

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that it is an inverted roller coaster and people don't think about inverted roller coasters when they think about roller coasters, even if they've just gotten off of an inverted roller coaster.

So in that case it was a nonobvious hazard because we -- you know, in this case the track was, you know, 10, 12 feet above the ground, and if you think about roller coasters as riding on top of the track, then there's no indication that one could get injured by walking underneath the roller coaster track, and therefore, a specific hazard needs to be provided.

- Q. Okay. Some people think roller coasters that people ride on top. Some people may think that piles of white stuff might be snow. True?
- A. I actually did research to find out how people think about roller coasters, so I know that 75 percent, maybe 78 percent of the people that I surveyed thought about roller coaster tracks riding on -- I'm sorry, roller coaster trains riding on top of the track and not underneath, even though all of those people had ridden an inverted roller coaster before. I have not done any studies to evaluate what set of visual stimuli might be interpreted as snow or not.

 Q. Have you done any studies to interpret what

knowing what I know about the incidence of foam buildup in that area and maybe some other areas of the river, then it's not likely that there would be -- I'm sorry, I'm phrasing that wrong.

snow were very small. So given that, and -- and

Because there was only small patches of snow in — in a few places in the park according to photographs I've seen, it seems hard to imagine how someone would see a pile of white stuff and somehow think that was a big pile of snow. That pile of snow is 10 to 20 feet tall, and I don't see any other piles of snow anywhere else on the grounds. Why would I think there would be snow there? So that's my question.

So questions about, you know, have I done any research on how people interpret a big pile of white stuff would not be the study that I would do, it would be, you know, interpreting a big pile of white stuff in the context of — of very little, if any, snow on the ground.

Q. Moving on.

You take issue with Ms. Gill's opinion that the foam attracts children and people to the river bank. Is that a fair statement, that you take issue with that?

A. I take issue in it that she failed to

Page 177 Page 179 provide any evidence. 1 My recollection is that when the same 1 2 2 Q. I just asked you a question, a very simple question has been posed to various people, they all 3 3 say pretty much the same thing. They don't see the question. 4 Do you take issue with it or not? 4 snow as an attractant. So I did not see the need to 5 5 A. It's not a simple question, actually. belabor the point; these people thought it was an 6 6 attractant, this person said it was an attractant, you Q. Sure, it is. 7 7 A. No. And she can say whatever she wants, but know, the - the - from my reading of these 8 8 statements and transcripts it seems that the bulk of the issue that I have with that statement from Ms. 9 9 Gill is she makes the statement without providing any the people, you know, the - consider the question of 10 10 evidence besides some anecdotal evidence. foam as an attractant to be -- I don't know, a ques --11 11 Q. Okay. Do you believe, or not believe, in What's the right word? They're surprised by the 12 12 your opinion, that the presence of foam in Falls Park question. It's like, why would that question even 13 13 come up. So -- So yeah, I didn't feel the need to during the months of February and March on an annual 14 14 expand on that. basis attracts people closer to the river bank? 15 A. I have no idea if that's true or not. 15 Q. So you didn't feel the need to provide the 16 entire basis of your rebuttal to Ms. Gill? 16 Q. Okay. So you have no opinion one way or 17 17 another as to whether or not the foam acts as an -- as A. List all the pros and cons? No. 18 an attractant to children; is that correct? 18 Q. Well, no. You said that one of the reasons 19 19 you don't agree with Ms. Gill is because city A. I'd have to go with what -- with the same personnel told you they don't believe it's an 20 questions posed to various city staff, park staff, and 20 21 21 attractant, and then you cite to one guy. If there -- and they answer the question I don't see that the 22 foam is a particular attractant, so --22 are more people who told you that, don't you think you 23 23 should tell me who those people are so I can ask them? Q. That is --24 24 A. -- so that's -- that's the evidence that I A. Well you're -- you're -- you have the same 25 25 information I do in terms of statements and deposition have. They don't see that foam is a particular Page 180 Page 178 1 attractant at least before the 2018 incident. 1 transcripts. Ms. Gill provides -- you know, if she 2 2 had such information you would think that it would be Q. All right. A. And, you know, that's the only information I 3 3 provided in her report. She goes on and on about foam 4 as a hazard, but says very little about foam as an 4 have. 5 5 attractant. So that tells me there are very few Q. According -б 6 A. I don't have any information that it is an statements about foam as an attractant, otherwise she 7 7 would have listed them. attractant or is not. 8 Q. Do you know if the City of Sioux Falls 8 Q. You have no opinion one way or another; is 9 considers the foam to attract visitors even closer to 9 that fair? 10 the edge of the river? 10 A. Sure. 11 A. Again, it's not clear to me that foam is an 11 Q. All right. In rebutting Ms. Gill's opinion, 12 you take issue with what you call her lack of 12 attractant, period, so. 13 Q. I asked if -- do you know if the City of 13 evidence; correct? 14 A. Yes. 14 Sioux Falls itself, not you, --15 Q. And then you point out that Mr. Mieras 15 A. Umm-hmm? 16 Q. -- but if the City of Sioux Falls considers stated that in all his time in -- with Falls Park the 16 17 17 the foam to be something that attracts visitors even only time he has heard or seen -- seen or heard of 18 children playing with the foam was the 2018 incident; 18 closer to the edge of the water? 19 A. Again, from my reading of these deposition 19 correct? 20 20 transcripts, I would say no. A. Yes. 21 Q. How about your reading of all the materials 21 Q. You cite no other anecdotal evidence in your 22 22 report for that proposition that it does not that were provided to you? 23 A. The same, same answer. No. 23 constitute an attractant. A. Yeah. I don't - I guess I don't -- I think 24 Q. You believe --24 You don't believe that the city has ever 25 25 that the --

Page 181 Page 183 1 that was present in the park in March 2018, at least indicated that they believe that the foam attracts 2 2 people even closer to the river's edge; is that your as it's been represented to me. Okay? 3 3 testimony today? A. Yes. A. No. After the 2018 incident I think the --4 Q. And did you see similar signs or identical the city began to, you know, entertain the -- the signs when you were there? 6 6 thought that foam might be an attractant, but I don't A. Yes. All right. How many did you see in the park 7 think that, you know, was much of a blip on their 7 8 consciousness before the 2018 incident. 8 total? 9 9 Q. That's not what I asked you. I asked you if A. I walked the whole park, so however many 10 they have there, I probably saw all of them. 10 the city considers that the foam serves as something 11 that attracts people even closer to the river's edge. 11 Q. Okay. Do you know how many that is? 12 A. I think that --12 A. I have not counted them. 13 13 Q. Do you know the route that the party took My understanding is now, after the 2018 14 14 from the parking lot to the ultimate site where Maggie incident, the city might consider that as an option. 15 Q. Isn't it true Detective Bakke has testified 15 Zaiger lost her life? 16 that the foam obscured the ledge where Maggie was 16 A. I believe there's conflicting testimony 17 17 about the route they took from the parking lot to the 18 Observation Tower, but it's consistent testimony about 18 A. Yeah. We've talked about that. Q. Okay. And you disagree with his conclusion 19 19 the route they took from the tower to the incident 20 as to whether or not it obscured the rocky ledge? 20 site. So I know the most likely route that they would 21 A. No. As we talked about, he was -- he was 21 have taken from the parking lot to the tower, and I 22 mentioning a lower ledge and not the upper ledges, and 22 know the most likely route they would have taken from 23 he clarified that for me on June 11th. 23 the tower to the incident site. And the most likely 24 route from the tower to the incident site is confirmed 24 Q. When you went to the -- the site, to Falls by testimony from Ms. Melendez and Ms. Jayne. 25 Park in 2019 in June, would you characterize the park 25 Page 184 Page 182 Q. You state -- and who --1 as a wilderness area, or an urban park, or something 1 2 2 And both of them also testified they didn't 3 see any warning sign on their route; isn't that 3 A. I would not classify it as a urban area. 4 correct? 4 I'm sorry, as a wilderness area. There's a specific 5 characteris -- characteristics that an area needs to 5 A. That's correct. Q. And do you give their testimony on that 6 have before being quali -- noted a wilderness area. 6 7 7 credence, or do you disregard it? But as I stated in my report, it's a natural A. It would not surprise me that there would be 8 area. You know, the river and the surrounding rocky 8 9 edges, it's a natural area embedded in an urban park. 9 people that would not notice this sign. 10 Q. I'm asking you in this particular instance 10 Q. And have you ever seen guarding of any type 11 do you give their testimony credence, or have you 11 at a natural area in an urban setting featuring a 12 12 disregarded it? river? 13 A. I'm sorry. Ask that again. 13 A. Their testimony that they did not see the 14 Q. In other words, have you been to an urban 14 signs? 15 area where there is rivers? 15 Q. Correct. A. I have no reason to believe that they did 16 A. Yes. 16 17 Q. Have you ever seen guarding at those sites, 17 not see the sign, and if they say they didn't see it or say they don't recall it, I have no reason to 18 18 such as railings, barriers, fences? 19 A. I don't recall. 19 believe otherwise. Q. Well which way did they testify, that they 20 Q. Have you been to Minneapolis before? 20 don't recall, or they didn't see it? 21 21 A. Well, they said they don't re -- they didn't 22 Q. I'm going to show you what's marked as 22 see it, but in actuality it's a recollection, so --23 Exhibit 19, and now I want to talk to you about the 23 24 Q. Well --24 warning signs. This is in fact the warning sign --25 A. -- it could be one or the both. 25 depiction of the warning -- one of the warning signs

Page 185 Page 187 1 Q. All right. So can you state, to a 1 Q. Everything in life is a recollection when we 2 go backwards; isn't it, doctor? 2 reasonable degree of certainty, that it's your opinion 3 she did see it and simply doesn't remember? 3 A. Of course. 4 A. No. 4 Q. You read Courtney Jayne's deposition transcript last night; right? 5 Q. All right. 6 6 A. I'm saying that's a possibility. A. Yes. 7 Q. She was asked if -- the route she remembers 7 Q. So your --8 8 taking over from the Observation Tower to where Maggie The possibility is pure speculation; is it 9 9 died; right? not? 10 10 A. It's not speculation, because it's based on A. Yes. 11 Q. She was asked if she saw a sign on the way; 11 research that people pass by warning signs. We know 12 12 they pass by them, we know that they looked at them, right? 13 13 and yet when stopped and asked do you remember seeing A. Yes. 14 14 Q. What did she say? any signs, they say no. 15 15 Q. Are you prepared --A. No. 16 Do you have any facts to testify that 16 Q. Did she say she didn't recall if she saw it 17 17 or not, or did she say, no, I didn't see one? Courtney Jayne looked at one of these signs? A. I don't know one way or the other. 18 18 A. Well I believe that she said no, she didn't 19 Q. All right. So to testify that she looked at 19 see it. 20 20 Q. All right. What did -it would be pure speculation on your part. "Yes"? 21 21 Well if you don't know, you'd be guessing. A. But from a human factors standpoint that can mean one of at least two things. One is in fact she 22 A. Well we don't know -22 23 23 did not see it, and the other is she did not remember Q. All right. So --24 seeing it. She saw it, but doesn't remember it, and 24 A. -- if she looked at it or not. And I cannot 25 so in her mind she did not see it. So either one say in any way that I know that she looked at it, Page 188 Page 186 1 because I don't. 1 could be true. 2 2 Q. If she saw it, as you think might be Q. All right. 3 possible, which is speculation; isn't it? 3 THE WITNESS: Can we take a break now? 4 MR. SIEFF: Sure. A. Based on research. 5 THE REPORTER: Off the record, please. 5 O. Can you say, to a reasonable degree of 6 (Recess taken from 2:07 to 2:11 p.m.) 6 certainty within your field, that Courtney Jayne saw 7 BY MR. SIEFF: 7 one of the signs on her way from the Observation Tower 8 Q. Doctor, one of -- one of your other opinions 8 to where Maggie Zaiger died? 9 9 is that Maggie's mother adequately super --A. No. 10 inadequately -- Strike that. 10 Q. All right. Can you say, to a reasonable degree of certainty within your field of expertise, 11 You take issue with Ms. Gill's opinion that 11 12 Maggie's mother adequately supervised Maggie; correct? 12 that Crissy Melendez saw a sign, a warning sign from 13 13 the Observation Tower along the path to where Maggie 14 Q. And in fact it's your opinion that Maggie's 14 Zaiger ultimately died? 15 mother failed to adequately supervise Maggie; is that 15 A. I would be surprised if they saw a sign from 16 correct? 16 the tower to the incident site. 17 A. That's correct. 17 Q. Along the path? 18 Q. Basically you're saying that Courtney failed A. From the tower to the incident site? Yeah. 18 19 her duty as a parent; correct? 19 There are no signs there. 20 20 Q. Can you state, to a reasonable degree of A. I'm just saying that there's evidence that 21 -- that Ms. Jayne failed to adequately monitor Maggie. 21 certainty within your field of expertise, that Crissy 22 Q. And you're saying that she is in whole or in 22 Melendez saw a warning sign of the type depicted in 23 the exhibit in front of you while she was at Falls 23 part responsible for the death of her own child; isn't 24 that correct? 24 25 A. I think the failure to monitor Maggie was a A. Well she said she did not see it. 25

Page 191 Page 189 1 causal factor in Maggie's death. 1 Q. And you have looked at all the available 2 2 Q. And consequently, Ms. Jayne, who you accuse evidence. 3 3 of failing to adequately supervise Maggie, would be A. Yes. Q. And I'd assume you'd want to reach that kind 4 the person responsible for Maggie's death; true? 4 5 5 of opinion based on sound facts, sound science and A. Well, I guess I have trouble with your 6 characterization. 6 sound experience and expertise; correct? 7 7 A. Yes. Q. I'm sure you do because you'd like to keep 8 it nice and sterile, wouldn't you? But the reality of 8 Q. One of the facts that you base your opinion 9 9 it is is when you say Courtney Jayne failed to on is by observation you made while you were at Falls 10 adequately supervise her child and she died, what 10 Park on June 11, 2019; correct? you're saying is she's responsible for her death. 11 11 A. Yes. 12 Isn't that the reality here? 12 Q. And during that time you state you observed 13 A. I can --13 groups with young children to determine how closely the accompanying adults monitored the children; 14 14 I can understand that, yes. 15 Q. That's an awfully serious thing to say; 15 correct? 16 16 isn't it, sir? A. Yes, and how close --17 17 Q. And you photo --A. It is a serious matter. 18 Q. And it's something that you are saying in 18 A. -- the children got to the river. 19 Q. And you photographed the young children that 19 your capacity as a human factors engineer and an you observed; correct? 20 experimental psychologist; correct? 20 21 21 A. Yes. A. Yes. Q. Did you get permission to photograph 22 22 Q. With no expertise in child care; correct? 23 children at Falls Park? 23 Correct? 24 A. Well, I think that -- I've laid out the 24 A. I did not. 25 Q. All right. Did you ask their parents if it 25 bases for my opinions --Page 190 Page 192 was okay if you took photographs of minors? 1 1 Q. And you've said you're not an expert in 2 child care. 2 A. I did not. Q. And you observed eight different groups with 3 3 A. -- and monitoring children is part of child 4 26 children; correct? care. 5 5 O. You would want to be extremely careful and A. If that's what I wrote, yes. б Q. That's what you wrote. 6 thorough before you make the kind of charge that a 7 parent is responsible for their own child's death; 7 A. Okay. 8 Q. And that's one of the bases of your opinion; 8 true? 9 9 is it not? 10 Q. It'd be a terrible thing to say that about a 10 A. Yes. parent and then find out you're wrong; wouldn't it? 11 Q. Your observations. One of the factual 11 underpinnings of this accusation you make; isn't it? 12 A. Yes. 12 13 Q. You know, if you're wrong about this you 13 A. One of them, yes. know what happens to you; nothing? Do you know what 14 Q. All right. And I want you to answer a few 14 15 questions, preferably directly. happens to her? Do you? 15 16 The 26 children; how old were they? 16 A. I can imagine it would be a terrible thing. 17 Q. Tell me what you think happens to her if you 17 A. Well it's difficult to --18 Q. You don't know; do you? 18 are wrong in your accusation that she's responsible 19 A. - determine, but from observation they 19 for her own child's death. 20 appeared to be as young as maybe three or four, and as 20 A. I think this is beyond the scope of my 21 old as maybe 10'ish, maybe 12. 21 22 Q. How close did you get to the children? 22 Q. I'd assume you'd want to make sure you've 23 A. Well the closest was pro --23 looked at all the available evidence before you make 24 24 that kind of accusation; true? Yeah. I have no idea. 25 Q. You were --25 A. I have.

A. Maybe a hundred or a couple hundred feet away. 3. Q. — a couple hundred feet away maybe. You were far enough away that you couldn't tell whether or not these adults were giving verbal instructions to the children, were you? 4. A. That's correct. 5. A. That's correct. 6. Q. Isn't it rue that he was of South Dakota 22. says? 4. I can be. 6. Q. You went to Falls Park in June when there 23. south Dakota permits daycare centers to utilize vocal or werbal instruction as a part of adequate or werbal instruction is certainly one way to monitor. 7. Q. (Nay. 7. A. Wes.— 8. Q. Isn't it true that he law of the State of or werbal instruction is a part of adequate or werbal instruction is a part of adequate or werbal instruction is certainly one way to monitor. 8. Q. Isn't it true that he law of the State of or werbal instruction is certainly one way to monitor. 9. Q. All right. 10. Q. All right. 11. Q. Isn't it rue that he law of the State of or werbal instruction is certainly one way to monitor. 12. Q. (Nay. 13. A. I mistruction is certainly one way to monitor. 14. Q. (Nay. 15. Q. (Nay. 16. A. Yes. 17. Q. (You worde were were not over whal instruction is certainly one way to monitor. 18. A. And it appeared as if some of the adults in over the adults when over the rewer were not over the instruction is certainly one way to monitor. 18. A. (Yes. 19. Q. (You worde were the were using verbal— O. (You worde word instruction is certainly one way to minitor. 19. Q. (You worde word instruction is near over that came about, and the and the same over the children here existying does to the children to so fire the way that the were using verbal— O. (You worde word in the law of the State of over that instruction is certainly one way to monitor. 19. Q. (You worde word instruction is over that came about, and the analytic transition in the word in the word word in the		Page 193	T	Page 195
2 away. 3 Q. — a couple hundred feet away maybe. You were far enough away that you couldn't tell whether or not these adults were giving verbal instructions to the children; were you? 4 A. That's correct. 5 not these adults were giving verbal instructions to the children; were you? 6 Q. Isn't it true that verbal instructions can be an adequate form of supervision of a child? 7 A. That's correct. 8 Q. Isn't it true that verbal instructions can be an adequate form of supervision of a child? 9 Q. Isn't it true that the law of South Dakota says? 10 A. It can be. 11 Q. You never bothered to look; did you? 12 A. I don't know. 13 A. I don't know. 14 Q. You never bothered to look; did you? 15 A. It's not within my domain of expertise. 16 Q. Isn't it true that the law of the State of verbal instruction as a part of adequate or verbal instruction is certainly one way to monitor. 19 A. Yes.— 10 Q. Au Yes.— 21 Q. Okay. 22 A. — verbal instruction is certainly one way to monitor. 23 A. — instructions as a way to monitor their children. 24 Q. You wrote.— 25 Q. You've saying it appears that it did? 26 A. Yes. 27 Q. You've saying it appears that it did? 28 A. Yes. 29 Q. You wrote youte, given my distance from the groups I could not determine whether the adults used verbal — used vocal instructions to keep the children had already learned to maintain a safe children shows a pair of adults who are on a wall above where the rick lidways standing, or was playing, and three the children? 29 You wrote you were there were with parents — A. I do not. 20 Q. Okay. Now you're telling me it appeared to you that they were using yeer bal here there were an adults who was standing, or was playing, and there was multiple looks back and forth, some kind of cachange was going on. 20 Q. You words specifically y	1	_	1	A I think it's irrelevant because in all the
3 were far enough away that you couldn't tell whether or not these adults were giving verbal instructions to the children, every you? A. That's correct.	1	-		
were far enough away that you couldn't tell whether or to these adults were giving verbal instructions to the the children; were you? A. That's correct. A. That's correct. Be an adequate form of supervision of a child? A. It can be. A. It can be. A. It can be. A. It can be. A. I don't know. C. Isn't it true that he law of South Dakota Says? A. I don't know. C. Isn't it true that he law of the State of the Children in the tell of the law of the State of the Children in the sevent in true the law of the State of the Children in the sevent in the sevent in the sevent that the law of the State of the Children. A. Yes - Q. Okay. A. Yes - Q. Okay. A. Yes - Q. Okay. A. Ard it appeared as if some of the adults in the in the seenes that I saw were using verbal Q. You wrote Q. You wrote Q. You wrote quote, given my distance from the groups I could not determine whether the adults used verbal used vocal instruction to keep the children. A. Yes Q. You wrote quote, given my distance from the groups I could not determine whether the adults used verbal used vocal instruction to keep the children. A. Yesh. Q. You wrote quote, given my distance from the sprough I could not determine whether the adults used verbal used vocal instruction to keep the children. A. Yesh. One of the exhibits in my report shows a pair of adults who are on a wall above where the the child was standing, or was playing, and there the children. A. Well Q. Okay. Now you've telling me it appeared to you that they were using vocal instructions as a way to monitor their the children and any or mether the children. A. That's myl I was I think careful to say the adults was aroung or was playing, and there the children was multiple looks back and forth, some kind of children was multiple looks back and forth, some kind of children was multiple looks back and forth, some kind of children was multiple looks back and forth, some kind of children was multiple looks back and forth, some kind of children was mul		•	ł	
not these adults were giving verbal instructions to the children; were you? A. That's correct. Q. Isn't it rue that verbal instructions can be an adequate form of supervision of a child? Q. Isn't it rue that verbal instructions can be an adequate form of supervision of a child? Q. Isn't that what the law of South Dakota say? A. I don't know. Q. You never bothered to look; did you? A. I don't know. Q. You never bothered to look; did you? A. I don't know. Q. Isn't it rue that the law of the State of south Dakota permits daycare centers to utilize vocal or verbal instruction as a part of adequate supervision, sir? A. Yes - Q. Okay. A verbal instruction is certainly one way to monitor. Q. All right. A. And it appeared as if some of the adults in the - in the scenes that I saw were using verbal - Q. You wrote - A instructions as a way to monitor their children. Q. Q. You wrote - A instructions as a way to monitor their children. Q. Q. You wrote, quote, given my distance from the groups I could not determine whether the adults under the was any from the river, or whether the children had already learned to maintain a safe distance from the river. Q. Okay. Now you're telling me it appeared to you that they were using verbal - used vocal instructions. A. That's right. Q. Okay. Now you're telling me it appeared to you that they were using given the three their children. Q. Okay. Now you're telling me it appeared to you that they were using given the was multiple looks back and forth, some kind of cychapea was going on. Q. That's not what you bothered to write, though; is it? Q. Okay. Now you're telling me it appeared to you that whit wou're was going on. Q. Oy ou wrote specifically you couldn't tell if was standing, or was playing, and there was multiple looks back and forth, some kind of cychapea was going on. Q. You wrote specifically you couldn't tell if you have the early the adults who were there? A. Well — Q. Okay. Now you're telling me it appeared to you that what was possible and the conditions. A.	1	•	1	
the children; were you? A. That's correct. Q. Isn't it true that verbal instructions can be an adequate form of supervision of a child? A. It can be. 10 Says? A. I don't know. 11 Q. Isn't that what the law of South Dakota 12 Says? 13 A. I don't know. 14 Q. You never bothered to look; did you? 15 A. It's not within my domain of expertise. 16 Q. Isn't it true that the law of the State of correct? 17 South Dakota permits daycare centers to utilize vocal or verbal instruction as a part of adequate 18 or verbal instruction as a part of adequate 19 supervision, sir? 20 A. Yes 21 Q. Okay. 22 A verbal instruction is certainly one way 23 to monitor. 24 Q. All right. 25 A. And it appeared as if some of the adults in 26 Page 194 1 the in the scenes that I saw were using verbal 27 Q. You wrote 3 A instructions as a way to monitor their 4 children. 28 A. Yes 4 Q. You wrote, quote, given my distance from the groups I could not determine whether the adults used verbal used vocal instruction to keep the children 29 correct? 20 Joya know whether they were with papears that it did? 4 A. Riad's right. 20 Q. You wrote, quote, given my distance from the close to them and away from the river, or whether the close to them and away from the river, or whether the close to them and away from the river, or whether the close to them and away from the river, or whether the way must used vocal instruction to keep the children 20 Q. Or daycare people? 21 A. That's right. 22 A. Peah. One of the exhibits in my report 23 South and they were using vocal instructions 24 A. It do not. 25 Q. Doyou know whether they were with papears that it did? 26 A. Yes. 27 Q. Okay. Do you know if they'd been to 28 Doyou know if they does not the park before? 29 A. That's why! was I think careful to say the adults that were accompanying the child'en. 29 Q. Doyou know if they does not the park before? 20 Q. Doyou know if they does not the park before? 21 Q. That's not what you bothered to write	1	- · · · · · · · · · · · · · · · · · · ·	1	
A. That's correct. Q. Isn't it use that verbal instructions can be an adequate form of supervision, of a child? A. It can be. Q. Isn't that what the law of South Dakota 12 says? A. I don't know. Q. You never bothered to look; did you? 15 A. It's not within my domain of expertise. Q. Isn't it use that he law of fies State of South Dakota permits daycare centers to utilize vocal or reverbal instruction as a part of adequate supervision, sir? 18 or verbal instruction as a part of adequate supervision, sir? 19 Q. Okay. A verbal instruction is certainly one way to monitor. Q. All right. A. And it appeared as if some of the adults in C. Q. You've already testified that the conditions were not substantially similar to what existed on March 18, 2018, and you agree that the conditions were not substantially similar. A. And it appeared as if some of the adults in C. Q. You wrote. A instructions as a way to monitor their children. Q. You wrote, quote, given my distance from the groups I could not determine whether the adults used verbal - used vocal instruction to keep the children close to them and away from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and any from the river, or whether the children and the space from the river. 10 Q. Okay. Now you're telling me it appeared to you that they were using vocal instructio	1			
8 From the river. Q. You went to Falls Park in June when there was an adequate form of supervision of a child? 9 2 2 2 2 2 3 3 4. I dan bt. 9 2 2 2 3 3 4. I dan bt. 9 2 2 3 3 4. I dan't know. 1 2 3 3 3 4. I dan't know. 1 3 2 2 3 3 3 4. I dan't know. 1 3 2 2 3 3 4. I dan't know. 1 3 2 2 3 3 4. I dan't know. 1 3 2 2 3 3 4. I dan't know. 1 3 2 2 3 3 4. I dan't know. 1 3 2 3 3 4 3 3 3 3 3 3 3				-
be an adequate form of supervision of a child? A. It can be. A. It can be. Says? A. I don't know. Q. You never bothered to look; did you? 14 A. Right. There were — There was — Q. You never bothered to look; did you? 15 A. It's not within my domain of expertise. Q. Isn't it true that the law of the State of South Dakota permits daycare centers to utilize yoal supervision, sir? 18 or verbal instruction as a part of adequate supervision, sir? 19 supervision, sir? 10 A. Yes — Q. Okay. A. — werbal instruction is certainly one way to monitor. Q. All right. A. And it appeared as if some of the adults in the — in the scenes that I saw were using verbal — Q. You wrote — A. — instructions as a way to monitor their children. Q. You wrote, quote, given my distance from the groups I could not determine whether the adults used verbal — used yocal instruction to keep the children to close to them and away from the river, or whether the childsen that all advay from the river, or whether the children had already learned to maintain a safe third children had already learned to maintain a safe distance from the river. A. That's right. A. That's right. A. That's right. A. Wesh. One of the exhibits in my report shough, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. You wrote specifically you couldn't tell if if the proper that had had you green that a bow where was multiple looks back and forth, some kind of exchange was going on. Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, though, is it? Q. That's not what you bothered to write, th	1			
10 A. It can be. Q. Isn't that what the law of South Dakota says? 13 A. I don't know. Q. You never bothered to look; did you? 14 A. Right. There were — There was — Q. You were bothered to look; did you? 15 A. It's not within my domain of expertise. 16 Q. Isn't it true that the law of the State of 17 South Dakota permits daycare centers to utilize vocal 18 or verbal instruction as a part of adequate 19 supervision, sir? 20 A. Yes— 21 Q. Okay. 21 Q. Okay. 22 A. — verbal instruction is certainly one way 23 to monitor. 24 Q. All right. 25 A. And it appeared as if some of the adults in 26 the— in the scenes that I saw were using verbal— Q. You wrote— A. — instructions as a way to monitor their children. 5 Q. You're saying it appears that it did? A. Yes. Q. You wrote, quote, given my distance from the groups I could not determine whether the adults used verbal— used vocal instruction to keep the children 10 close to them and away from the river, or whether the 11 children had already lessined; 12 distance from the river. 13 A. To an office a popule? 14 A. I do not. 15 Q. Okay. Now you're telling me it appeared to you that they were using you all instructions 16 A. Yesh. One of the exhibits in my report 17 shows a pair of adults who are on a wall above where 18 their child was standing, or was playing, and there 19 was multiple looks back and forth, some kind of exchange was going on. 21 Q. That's not what you bothered to write, 22 Q. You wrote specifically you couldn't tell if 22 Q. That's not what you bothered to write, 23 Q. To the adults who were there? 24 Q. You wrote specifically you couldn't tell if 25 Q. You wrote specifically you couldn't tell if 26 A. Yes. 27 Q. That's not what you bothered to write, 28 doon't know their ages; correct? You don't— 29 A. I do not. 20 Do you know whether they were with 20 Do you know whether they were with 21 A. I do not. 22 A. That's right. 23 A. That's right. 34 A. I do not. 45 Do you know if they'd been to — 46 Doy work you work telling me it appeared to 47 Doy you know if t	1	•		
12 Says? 12 Q. There was no foam in piles below the river; 20 Says? 12 Q. There was no foam in piles below the river; 20 Correct? 3 A. It's not within my domain of expertise. 15 Q. Isn't it true that the law of the State of 17 South Dakota permits daycare centers to utilize vocal or verbal instruction as a part of adequate 18 overbal instruction is certainly one way 20 A. Yes - 20 Okay. 21 Okay. 22 A verbal instruction is certainly one way 21 Okay. 22 A verbal instruction is certainly one way 22 Okay. 23 Okay. 24 Okay. 25 A. And it appeared as if some of the adults in 24 Okay. 25 A. And it appeared as if some of the adults in 26 Okay. 27 Okay. 28 Okay. 29 Okay. 29 Okay. 29 Okay. 29 Okay. 20 Okay. 20 Okay. 21 Okay. 22 Okay. 25 Okay. 26 Okay. 27 Okay. 28 Okay. 29 Ok	1			•
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15 A. It's not within my domain of expertise. Q. Isn't it true that the law of the State of South Dakota permits daycare centers to utilize vocal 18 or verbal instruction as a part of adequate 19 supervision, sir? 20 A. Yes 21 Q. Okay. 21 Q. Okay. 22 A verbal instruction is certainly one way 22 to monitor. 23 to monitor. 24 Q. All right. 25 A. And it appeared as if some of the adults in 26 Q. You wrote 27 Q. You wrote 28 A instructions as a way to monitor their 29 children. 20 Q. You wrote 20 Q. You wrote 21 Q. You wrote, quote, given my distance from the groups I could not determine whether the adults used yerbal used vocal instruction to keep the children 29 (children thad already learned to maintain a safe distance from the river. 20 Q. Kay. Now you're telling me it appeared to you that they were using vocal instructions. 31 A. That's right. 42 Q. Okay. Now you're telling me it appeared to you that they were using vocal instructions. 43 A. That's right. 44 Q. Okay. Now you're telling me it appeared to you that they were using vocal instructions. 45 A. Yes. 46 A. That's right. 47 Q. Okay. Now you're telling me it appeared to you that they were using vocal instructions. 48 A. That's why I was I think careful to say the adults that were accompanying the child children. 49 (children thad already learned to maintain a safe distance from the river. 40 Q. Okay. Now you're telling me it appeared to you than they were using vocal instructions. 40 A. That's right. 41 Q. Okay. Now you're telling me it appeared to you than they were using vocal instructions. 40 A. That's why I was I think careful to say the adults that were accompanying the child children. 41 A. I do not. 42 Q. Do you know wift they'd been to the park before? 43 A. I do not. 44 Q. Okay. Do you know if they'd been to the park before? 45 A. I do not. 46 Q. Or daycare people? 47 A. I do not. 48 Q. Or daycare people? 48 A. I do not. 49 Q. Oyou know wift they'd been to the park before? 49 A. I do not. 40 Q. Oyou know wift they'd				
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A. — instructions as a way to monitor their children. A. I do not. Q. You're saying it appears that it did? A. Yes. Q. You wrote, quote, given my distance from the groups I could not determine whether the adults used verbal — used vocal instruction to keep the children close to them and away from the river, or whether the children thildren thildren thildren that already learned to maintain a safe distance from the river. A. That's right. Q. Okay. Now you're telling me it appeared to you that they were using vocal instructions. A. Yeah. One of the exhibits in my report their child was standing, or was playing, and there was multiple looks back and forth, some kind of exchange was going on. Q. That's not what you bothered to write, though; is it? Q. You wrote specifically you couldn't tell if 3 Q. Do you know whether they were from? 4 A. I do not. Q. Do you know whether they were with parents — 7 A. I do not. 8 Q. — or child care people? A. I do not. 9 Q. Or daycare people? A. That's why I was I think careful to say the adults that were accompanying the child — children. 9 Q. Okay. Do you know if they'd been to the park before? 10 Q. Okay. Now you're telling me it appeared to you that they were using vocal instructions. 11 A. I do not. Q. Do you know if they'd been to — 12 Do you know if they'd been to — 13 A. I do not. Q. Do you know if they'd been to — 14 Do you know if they'd been to — 15 Do you know if they'd been to — 20 Do you know anything at all about these children? A. I do not. A. I do not. Q. Do you know anything at all about these children? A. Nothing other than what I captured in the photographs. Q. Or the adults. Do you know anything at all about the adults who were there?	i	_	1	_
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120 they true using vocal institutions. 120 rs. Other than that the captures in the	25	they were using vocal instructions.	25	A. Other than what was captured in the

Page 197 Page 199 photographs, no. O. Three or four or maybe five? 2 2 A. More likely even less than three. Q. Are you going to testify in open court under 3 3 O. Or six? oath that you considered this to be a valid scientific 4 study of some sort? 4 A. They were quite close, which is --5 5 Q. Did you measure them? A. I did not present this as a scientific 6 6 A. You know, if you keep -study. 7 7 Stop interrupting me and maybe I can finish Q. This is --8 8 A. I presented this as a demonstration of the sentence. behavior of adults and children in the park on the day 9 But you can determine, by looking at the 10 that I was there and was able to observe. 10 photographs, that all the -- that each child had an 11 Q. Nowhere in your --11 adult that was close, you know, within arm's distance 12 A. I don't think I've ever said that this was a 12 or within taking one step. 13 empirical study. But as a demonstration I think -- I 13 Q. You say most of the time there was an adult 14 14 positioned between the young child and the river. think that it's - if I were to do statistical 15 analyses -- I know that if I were to do like a 15 A. Yes. 16 16 Chi-Square test on the data, I would find that there Q. That would, by implication, mean that some 17 17 of the times there was not. was -- have significant findings of children staying 18 away from the river. 18 A. And -- which --19 19 Q. Well you didn't do that before you accused Which does not mean that the adult was not 20 Courtney Jayne of being responsible for her child's 20 monitoring the child, it means that the adult might 21 21 have been on the other side of the child from the death; did you? 22 22 A. No need to because I've done Chi-Squared -river, but within reach. 23 23 Q. So when you wrote, most of the time there Q. And you didn't --24 A. If I could finish. 24 was an adult positioned between the young child and 25 25 the river, --Because I've done Chi-Square tests, I know Page 200 Page 198 A. Yes? 1 that if you have zero instances of an event with 26 --1 2 2 Q. - you knew full well that some of the time zero instances of a frequency of one event out of the there was not an adult positioned between the young 3 possible, you know, 26 in this case, then I would find 3 4 child and the river. Why didn't you just write that? 4 a statistical significance using a Chi-Square test. 5 Q. Do you really think a first-year student at 5 A. Well the -- I think the context of that 6 Santa Cruz in this experimental psychology department 6 sentence, if I could have my binder back. 7 7 could get away with calling this some sort of valid Where did that go? 8 8 Q. It's in your report. test to -- to evidence a theory, as basis for 9 establishing a theory or hypothesis? Is that what 9 A. Oh, here it is. 10 Q. I just want to know why you didn't write 10 you're going to say in court? 11 11 A. Again, I've never represented that this --12 this observational study was something maybe, you 12 A. I'd like to see the context. Where are you 13 reading from? 13 know, worthy of publication. 14 14 Q. I'm reading from your report on page 13. Q. You did not --15 A. It shows ---15 A. (Witness reviewing exhibit.) All right. So 16 subsection d.ii, "All of the children were closely 16 Q. -- call this --17 monitored in that at least one adult was no more than 17 A. -- that of the 26 children there, none of 18 a few feet from each younger child." And what that 18 them walked within 10 feet of the river. 19 means is within reach or within a one-step distance. 19 O. What you --20 What you observed was at least one adult was 20 Most of the time -- Of those times when there was a 21 proximate adult, most of the time that adult was 21 no more than a few feet from each younger child; 22 between the child and the river. That does not mean 22 right? 23 23 most of the time there was an adult between the child A. Yes. 24 Q. What's "a few feet"? 24 and the river and the other time there was not an 25 adult monitoring the child. All of the time there was 25 A. Three or four feet.

Page 201 Page 203 an adult monitoring the child. Q. And you read what she said about what 2 2 Q. Nowhere in your report do you refer to this happened that day; correct? 3 observation of a few kids that you conducted on July 3 A. Yes. 4 -- June 11, 2019 as a mere demonstrative or 4 Q. And she said she didn't see any signs from 5 5 demonstration of the point. You don't use the word the Observation Tower to the point of the death; 6 "demonstration" anywhere in there. 6 correct? 7 7 A. I just described what I did. A. That's correct. 8 8 Q. And then you go on to state that in your Q. And she didn't see any signs from when they 9 9 conclusion Ms. Jayne did not act in a way that would got to the parking lot to the Observation Tower that 10 be expected of parental supervision and did not act to 10 she considered warning signs; correct? 11 11 closely monitor her young child, as did other parents A. That's correct. 12 12 observed at Falls Park. Q. And she testified she was reading things 13 13 Consequently, isn't it true, sir, that you because she's kind of a history buff; didn't she? 14 are utilizing your limited observation of a limited 14 A. I remember her talking about one thing 15 number of people on a day completely un-similar to the 15 having to do with the mill. So I don't know that that 16 16 date in question as part of the basis for your would be characterized as stuff, but she did mention 17 17 conclusion with respect to adequate or inadequate reading a plaque about the mill. 18 supervision? 18 Q. She testified when -- that she thought the 19 19 A. Well section 9 - section 4.e. you have my pile in the river was snow; did she not? 20 summary statement for that section. So the opinion 20 A. Yes. 21 that Ms. Jayne failed to maintain a close distance and 21 Q. You've disregarded her testimony on that; 22 22 failed to monitor her child is based on everything haven't you? 23 23 else I had written in that section 4, section a. and A. No. What makes you say that? 24 b. and c., as well as d. where I describe the -- the 24 Q. Because you've said no reasonable and 25 observational study that I did. 25 attentive person or prudent person could ever think it Page 202 Page 204 1 Q. Very simple question: Number -- item --1 was snow. 2 2 letter d. on page 13. A. So --3 3 A. Yes. And I still am puzzled by why she would 4 Q. Does that form part of the basis of your 4 think it was snow. 5 5 opinion with respect to supervision or not? Q. Okay. Did you read why she thought it was 6 6 A. It does. snow? 7 7 Q. Did you --A. Something about piling snow up in the middle 8 You have not ever spoken to Crissy Melendez; 8 of corn fields or something. 9 9 Q. Is that what she said, piling up in com 10 10 fields; is that your testimony today? A. That's correct. 11 Q. Do you know if she has any financial 11 A. It was -12 incentive in this case? 12 It was something to that effect, 13 Q. Well she had a reason for why she thought it 13 A. I have no idea. 14 Q. Do you know if she has a history of being an 14 was piled up. 15 A. If I could finish. 15 unreasonable person? 16 She said something that in Iowa they pile 16 A. I have no idea. 17 17 snow up in open fields, so. Q. Or an inattentive parent? 18 Q. Okay. 18 A. I have no idea. 19 A. That's what I recall from her testimony. 19 Q. Or a bad parent? 20 20 Q. And you thought that was a silly reason for A. I have no idea. 21 Q. Do you know what her background is at all? 21 thinking the -- the white stuff at the park was snow? 22 22 A. Other than what she talked about in her A. You know, again you're mischaracterizing my 23 23 testimony. I never used the word "silly." deposition. 24 Q. Which you read. 24 Q. Unreasonable. 25 25 A. I'm still puzzled by -- by how one could A. Yes.

Page 207 Page 205 1 A. Photogrammetry? 1 think that was snow, given the context. So, for 2 2 example, the -- the river's a river, it doesn't --3 A. Yes. 3 that river could not be anywhere else except where it 4 was. You know, they walked up to the river, did not Q. And that's the science of making reliable measurements by use of photographs; correct? encounter a river, so it had to be a river there, not 6 6 A. The science of estimating measurements by a big field where someone might pile up snow, so --7 7 using photographs. you know, so that doesn't make sense to me either. 8 O. It probably doesn't make sense sitting in a 8 Q. What's your background in that field? G 9 A. I have done photogram metric analyses of conference room in Minnesota, may make sense when 10 you're out at Sioux Falls with a number of kids. 10 photographs using measurements of a known o -- or 11 I want to ask you about your opinion with 11 known measurements of an object in the photograph and 12 12 respect to the distance of Crissy Melendez and -- when then extrapolating two objects in the same plane to 13 she took this photograph -- a photograph. If you turn 13 determine or to estimate measurements for a second 14 to page 12 of your report, you state: "During the 14 object in that photograph. I've also used a software 15 15 site visit, I used my camera to adjust my view to program called PhotoModeler which does the same thing 16 match the view shown in both photos of the children 16 in a much quicker, easier way as long as you have 17 17 taken by Ms. Melendez." The "exercise indicated that measurements of other features in the scene. 18 Q. Did you use PhotoModeler in this instance? Ms. Melendez was probably standing about 40 feet from 18 19 the river edge, rather than 10 to 15 feet." 19 20 20 Q. Did you have any known measurements to Did I read that correctly? 21 utilize in this instance? 21 A. Yes. Q. Mclendez Exhibit Number 4 is one of those 22 A. I just --22 23 23 As I said, I -- I used the method as des -photographs; correct? 24 as I described. 24 A. Yes. 25 O. Melendez Exhibit Number 5 is one of those 25 Q. What was your error rate regarding the Page 208 Page 206 photographs; correct? 40-foot measurement; plus or minus in feet? 1 1 2 2 A. Yeah, maybe plus or minus a foot or two. A. Yes. 3 Q. Tell me again exactly how you made the 3 Q. What method did you use to come up with the 4 determination that they were 40 feet away? 4 40-foot measurement? 5 A. I started at the river edge with my camera, 5 A. A tape measure. 6 it's a single-lens reflex camera, and attempted to 6 Q. Okay. What kind of camera was -- did Ms. 7 7 frame the view. And I started with -- I started with Mclendez use? 8 8 the photo with Jeremy in it and tried to reproduce --A. She had a cell phone, if I remember 9 or capture everything that can be seen in Melendez 9 correctly. 10 number 5 and see that in my viewfinder. 10 Q. What kind? 11 11 A. I don't know. Q. Okay. 12 A. And I kept moving side to side and 12 O. What was the focal length? 13 eventually back until I was at a location that 13 A. I don't know. Q. What was the type of zoom she was using, if reproduced everything in my viewfinder that was shown 14 14 15 at all? 15 in this photograph. Once I was in that location I 16 16 tried to put myself in a location that also captured A. I don't know. 17 what could be seen in the photograph of the two girls, 17 Q. Was she zoomed? 18 1.8 which is Melendez Exhibit Number 4, and when I found A. I don't know. 19 that then I confirmed that I was able to reproduce 19 Q. Was it digital? 20 A. I don't know. I assume so. 20 what I could see in the Jeremy photo number 5, and was 21 O. Does it make a difference if it's digital or finally able to find a spot on the rock where I could 21 22 optical? 22 capture what's shown in both photographs, Exhibit 4 23 and Exhibit 5, in my viewfinder. 23 A. No. Q. Okay. So are you familiar with the term 24 Q. What type of -- . 24 25 Did you use a camera to take photos to 25 photogrammetry?

	Page 209	1	Page 211
1	reflect this 40-foot measurement?	1	A. Okay.
2	A. I took photos from the location where I	2	Q. I assume you didn't mean to insult my mother
3	think Ms. Melendez was standing.	3	by including her in the less than five percent of the
4	Q. What type of camera did you use?	4	statistical population.
5	A. It was a single-lens reflex.	5	A. That's not an insult of any kind. I'm just
6	Q. Brand?	6	providing a description that if someone is five feet
7	A. Nikon D3.	7	or under, they're shorter than five percent of the
8	O. Year?	8	female population.
9	A. It's a D3 model.	9	Q. The point is, you don't know her height; do
10		10	you?
11	Q. Okay. What's the focal length?	11	· ·
	A. Of the photo that I took? Yeah, I just got	12	A. I think the point is it would be unlikely that Ms. Melendez was under five feet tall.
12	a variable — variable distance lens, so I don't know.	13	
j	Q. And you took measurements while you were	14	Q. When she took this photograph of Jeremy A. Yes.
14	there?		· · · · · · · · · · · · · · · · · · ·
15	A. I did.	15	Q that's in Exhibit 5 of Melendez?
16	Q. Did you record those measurements?	16	A. Yes.
17	A. Yes.	17	Q. Was Ms. Melendez inadequately supervising
18	Q. Are they	18	him, in your opinion, if you have one?
19	Is it somewhere in your notes?	19	A. Jeremy is 14, he's got the brain maturation,
20	A. Yeah. I need to see my binder.	20	you know, that that, you know, he understands risks
21	[The binder was handed to Dr. Nemire.]	21	and does not need to be closely monitored in the same
22	Q. I mean, if they are, they are; if they	22	way that a five year old does.
23	aren't, they aren't?	23	Q. How do you know he has the emotional
24	A. Yeah. They would be in my notes.	24	maturity?
25	Q. How tall are the large rocks that the	25	A. I'm assuming that he is a typical 14 year
	Page 210		Page 212
1	children are behind in the photograph?	1	old child.
2	A. I don't know.	2	Q. So that's based on an assumption; right?
3	Q. Did you measure them?	3	A. Based on, you know
4	A. No. They weren't there.	4	Q. Okay.
5	Q. They weren't there?	5	A you know, all of the research on brain
6	A. That's what I said.	6	maturation and when that occurs is, you know, an
7	Q. They were gone?	7	assumption of typical progression of brain maturation,
8	A. Yes.	8	and – and psychological motor skills, you know, so
9	Q. How tall is the person	9	it's all a general. There's certain a range, so
10	How tall is Crissy or yes, Crissy	10	Q. So he was could handle himself out there,
11	Melendez?	11	he was sufficiently mature and all that sort of thing;
12	A. I don't know.	12	right?
13	Q. How tail are you?	13	A. Well I have no idea, but he's a 14 year old
14	A. Six foot.	14	child, and my task in this case is not to evaluate his
15	Q. Did you account for any height difference in	15	capabilities.
16	your calculations between you and Ms. Melendez?	16	Q. And of course Maggie the testimony is he
17	A. I did, but the difference would not be	17	was she was right next to him.
18	critical or important in any way.	18	A. Well depends on who you talk to.
19	Q. What if she was under five feet tall?	19	Q. Well it depends on the witness testimony;
20	A. Well, that would put her in the in the	20	doesn't it?
21	smallest fifth percentile of the female population in	21	A. According to Jeremy, she was six to eight
22	the United States. But again, this method of	22	feet away. According to his mother, he was nowhere
23	approximating a viewpoint is - is a valid one, and	23	near Maggie. But again, since the we have the Jer
24	you don't need photogrammetric software to do it.	24	Jeremy's statement to the police, and that's close
25	Q. My mother was four foot ten.	25	to the time of the event, I put more weight on what

Page 215 Page 213 A. I do not have an opinion. 1 Jeremy says. 2 Q. Okay. This warning, which is I think over 2 Q. Ms. Melendez testified, according to you, 3 that Maggie was nowhere near Jeremy; is that correct? 3 here. 4 A. Who? 4 Here's the warning sign. I just want to ask 5 5 you some questions about this. It -- This warning Q. Ms. Melendez. sign, or caution -- it says "CAUTION"; correct? 6 A. That's my recollection of her testimony, 6 7 7 ves. 8 8 Q. What did Ms. Jayne say? Q. It does not say "warning" anywhere on it: 9 9 A. She did not know. correct? 10 Q. And it's your testimony that Jeremy said 10 A. That's correct. 11 Q. This sign depicted in Exhibit 19 does not 11 that Maggie was six feet away from him? 12 A. That's what he --12 comply with ANSI Z-35; does it? A. Well as indicated in my report, it would be 13 That's what is written in the police report, 13 -- comply with the earlier versions of ANSI Z535 I 14 14 that she was six to eight feet away. 15 Q. Okay. And in your --15 think before 2002. It does not comply with recent --16 the most recent version of ANSI Z535 which is issued 16 Do you have an opinion whether or not it 17 in 2011. 17 would have been appropriate to let Jeremy be in the 18 Q. So as of 2013 this sign did not comply with 18 position he's shown in that photograph with Maggie being six feet away if he was monitoring her? 19 the applicable ANSI standard; correct? 19 20 20 A. No. As a adult caregiver, I don't think it A. That's correct. 21 would be responsible to have a 14 year old monitor the 21 Q. As of 2018 this sign did not comply with the 22 applicable ANSI standard; correct? 22 behavior of a five year old. 23 Q. These are two of the other kids --23 A. That's correct. Q. ANSI sets the standard by which the adequacy 24 A. Yes. 24 25 25 of signs is judged; true? Q. -- in Exhibit 4. Page 214 Page 216 A. No. 1 A. Yes. 1 2 Q. Inadequate supervision again by mom and mom? 2 Q. That's the gold standard for what constitutes an appropriate caution or warning sign. 3 3 A. Eleven and 12 year olds have good motor 4 skills, they're able to recognize perceived hazards. 4 5 Q. Have you ever testified before that a sign 5 Q. Were there any 11 and 12 year olds or older 6 -- a warning sign ought comply with the applicable 6 in this group of 28 you looked at in June? 7 A. I think I said some might be as old as 11 or 7 ANSI standard? 8 12. 8 A. Yes. q 9 Q. So they don't need their parents to be Q. Why did you testify to that? 10 A. Because the ANSI Z535 standard is an attempt 10 monitoring them. 11 to provide consistency in warning signs, and the 11 A. And yet they were. 12 Q. Okay. Well they could have just been 12 sections of that standard are based on human factors 13 13 research. talking to them; couldn't they? 14 Q. Okay. It's based on --14 A. Well the monitor is -- is a behavioral A. So the --15 measure, it's proximity, and -- and it's taking, you 15 16 know, some actions, you know, that indicate, you know, 16 Q. I'm sorry. I thought you were finished. A. So it's possible to -- you know, let's see. physical control like, you know, holding their hand or 17 17 So the ANSI Z535 standards apply really to 18 carrying the child. So those are things that are 18 19 the format of a warning but says very little about the 19 readily observed in the physical world. Q. The state of South Dakota allows a daycare content other than, you know, that there should be a 20 20 21 signal word, a description of the hazard, instruction provider to supervise the outdoor activities of a 21 22 and consequence statements. That's the extent to 22 child 3 years or older if the daycare provider's 23 inside, as long as they're in line of sight. You 23 which the ANSI Z535 standard applies. It -- Because it does not go into much detail about the content for 24 think that's inadequate supervision; do you have an 24 warnings, it would be possible to have a warning that 25 opinion?

Page 219 Page 217 pre-2002 standard, but just because it doesn't comply complies with the ANSI Z535 standard but not be an 2 with the 2011 standard, it has all the pieces that 2 effective warning. 3 Q. To be clear, you have testified previously 3 would make it an effective warning. 4 Q. Does this sign comply with the ANSI standard that a warning sign needs to comply with the applicable ANSI standard; correct? In prior cases. 5 that was in effect as of March 18, 2018 or not? 5 6 A. As I said, it does not. 6 A. "Needs" to comply. Yes, because of the 7 7 Q. The ANSI standard sets the generally formatting requirements. 8 Q. Okay. And you've written about that as 8 accepted protocol for evaluating prospective warning 9 symbols and signs; true? 9 well; correct? 10 10 A. Yes. That's the -- the minimum standard for A. It provides one methodology for evaluating 11 11 symbols. a warning. O. Correct. This sign, Exhibit 19, doesn't 12 Q. And it's the methodology that's accepted 12 13 within the field of human-factors engineering; 13 meet the minimum standard for warning; correct? 14 14 A. I didn't say that. It's - It's not correct? 15 A. Sure. 15 compliant with the recent standards, but it's con --16 Q. It --16 it's compliant with the pre-2002 standard. And in my 17 17 The ANSI standard incorporates generally report I walk through how the pre-2002 and the 2011 18 accepted human-factors engineering techniques and 18 standards are different in terms of the color choice, 19 beliefs; correct? 19 you know, for backgrounds, and in terms of the formatting of the signal word and its background, and 20 20 A. I'm sorry. Ask that again. 21 21 in terms of pictorials, and in terms of the inclusion Q. The ANSI standard incorporates generally 22 accepted human-factors engineering techniques; 22 of hazard instruction and consequence statements. So 23 23 correct? those pieces of the warning are described in the 24 24 pre-2002 standard and the 2011 standard. A. "Techniques." 25 So one of the ways that this sign is not 25 Q. Beliefs? Principles? Page 220 Page 218 consistent with the 2011 standard is the formatting of 1 A. As I said, the ANSI Z535 standards are based 1 2 on human-factors research on what makes an effective 2 the signal word. So I think it's Exhibit R of my 3 warning, so - so - so the ANSI standards have 3 report shows the older standard and the newer 4 standard. So there's not a whole lot of difference, 4 incorporated some of those things, such as use of a 5 signal word, use of pictorials, when to use block so I could not say that the two - pre-2002 standard, 6 capital letters and when to use mixed case, font size, 6 the format would be any more or any less effective 7 7 a number of things, you know, all based on than the 2011 standard. You know, both standards ask for a signal word, you know, the difference is the -8 human-factors research. 9 Q. All right. Let me rephrase that. 9 you know, the -- I guess the extra clutter in the 10 The ANSI standard, ANSI Z-35, incorporates 10 background for the signal word in the pre-2002 11 standard, and the difference is als - and so that 11 generally accepted human-factors engineering 12 12 extra clutter most likely would not have much, if any, principles; correct? 13 A. You know, again, "principles." You know effect on how people would notice, read, understand or 13 follow a warning. The second difference is the 14 You know, I'm sure Ms. Gill wrote these questions for 14 15 you, but they just don't make sense. So it - As I've addition of the exclamation mark and the warning 15 said, the ANSI Z535 standards are based on 16 16 triangle in the 2011 standard. That symbol can be 17 human-factors research, it's data that has come from 17 important in providing -- you know, encouraging 18 doing - conducting empirical research with what is 18 somebody to notice it, but research has shown that 19 noticeable, what makes a display noticeable, what 19 people don't pay that much attention to the makes text readable, understandable, based on research 20 exclamation mark and the triangle. So - So in 20 21 that shows which of these components provided in one 21 effect, the differences in format between, you know, 22 piece are most likely to result in people following 22 the pre-2002 ANSI Z535 standard and the 2011 standard 23 these warnings. So a human-factors principle might be 23 is quite minimum - minimal, and so this warning that

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was shown and displayed in Falls Park is close --

[coughing] -- excuse me, closer to the two thousand --

true in that a human-factors principle might be

something like, you know, provide a list of items in a

Page 223 Page 221 bullet format as opposed to one block text. ANSI Z535 means in this situation. 1 2 2 O. Isn't it true that the river -- the certainly recommends that. 3 3 characteristics of the area around the river differ Q. Is it your --4 markedly a mile, two miles, three miles down river 4 Are you done? 5 A. So ---5 than it does in this urban park setting? 6 6 A. I have not been to any other parts of the But so yes, there might be some 7 7 river. human-factors principles that are incorporated in the Q. Okay. So again, warnings are most effective 8 8 ANSI Z535 standards, but as a blanket statement, you 9 know, it somehow incorporates all human-factors 9 when they're placed at the time and location where a person needs it; right? 10 principles is just not accurate or correct in any way. 10 11 A. If you need a warning, then yes, --11 Q. How far was the closest warning sign or 12 12 caution sign to the area where Maggie went in the 13 A. -- that is true. You need to place it --13 water; how many feet? 14 14 Q. Right. A. (Witness reviewing documents.) Well the A. - at time and location. 15 closest sign was maybe -- maybe a hundred feet, --15 16 16 Q. Did you meas --Q. I just need to know if you are of the 17 opinion that having the closest warning sign to the 17 A. -- maybe a little bit more. 18 Q. Did you measure it? 18 area where Maggie fell in being 60-some feet away was 19 or was not sufficiently close in terms of location to 19 A. In the past I've measured the width of the 20 -- Oh, actually, no, maybe more like 50 or 60 feet. I 20 make it effective. 21 A. In this situation 60 feet could be close 21 measured the -- using a Google aerial photo, measured enough. Now the problem with this particular warning 22 the distance from the area where Maggie fell to the 22 23 23 sign is it's oriented in such a way that if you're sidewalk, and that was about a hundred feet. 24 24 standing where Maggie fell you would not be able to Q. Okay. 25 see this sign, you know, so, you know, we're talking 25 A. So the closest sign to where Maggie fell was Page 224 Page 222 about not just distance, but we're also talking about 1 1 at the intersection of the sidewalk and the pedestrian orientation in terms of what would make a warning more bridge, so that might be, you know, maybe 60 or 70 2 2 3 effective. So in this situation if you wanted a -- if feet. you -- if you thought there was a need for a warning Q. Have you measured it? 4 sign then you want to place it in places where people 5 A. Eyeballing it from --Q. From an aerial photograph? 6 would see it before they go wandering off the 7 7 sidewalks and to the edge of the river. 8 Q. So if I understand you correctly, if we 8 Q. Okay. 9 assume for a moment that a warning was needed, the 9 A. Based on my previous measurement of 100 feet 10 warning sign needed to be more proximate to the area 10 from the river's edge to the sidewalk. of the fall than it was lo -- than where it was 11 11 Q. Do you agree with the proposition that located on the day of the incident. Is that a fair 12 warnings are most effective when they're placed at the 12 13 statement, sir? 13 time and location where a person needs it? 14 14 A. Well --A. I do. 15 And I'm saying no, not necessarily. 15 Q. And is it your opinion that your estimate of 16 16 60 feet from the closest sign to the point where 17 A. Because proximate to the --17 Maggie fell in was a -- was sufficiently close to the 18 location where she fell in to constitute an effective 18 Well, one, you say proximate to the area of 19 the fall presumes that you can anticipate where people 19 will fall off the edge of the -- of the canyon wall, 20 A. Well, you know, "close" in this case would 20 and -- which means then that anywhere that there is a 21 21 be placing warning signs along this particular edge of 22 cliff where someone could fall off of you need a 22 the river maybe every 50 feet. Maybe having three 23 warning every few feet to make sure that people 23 signs along the edge of the river in this location, 24 approaching this area would see it here, because if 24 which means that you want to do the same thing along 25 they're over there they might not see it over there the entire river on both sides. That's what "close"

Page 227 Page 225 ten feet over, twenty feet over, so then you need 1 statement that "no swimming, you could drown," "turbulent water, you could drown." That explicit 2 2 warning signs along the river, everywhere along the 3 river, which is, I think, an untenable position. So 3 statement is not needed because it's understood in the 4 better positioned would be to provide warning signs in 4 pictorial. 5 5 areas before [coughing] - before people are about to Q. Okay. 6 go off the sidewalk and - and wander across the grass 6 A. The same with the slippery rocks. "Slippery 7 7 rocks, you might fall," that's not needed to say "stay or -- or along -- towards the river's edge. And that 8 8 off the rocks" or "keep off the rocks." might be several different locations, but not necessarily, you know, near the actual hazard. There 9 9 Q. Isn't it a basic principle of human factors 10 where you would need a warning is when they make the 10 that a warning needs to describe the specific nature decision to leave the sidewalk and go to the river, 11 11 of the hazard, the consequences, and how to comply in 12 order for it to be even remotely considered effective? 12 then you would want a warning at that place, which 13 13 A. No, I would not agree with that just based could be far away, it might be a hundred feet. So --14 And it might be closer, it depends on where that 14 on the research I just told you about. 15 15 Q. Would you agree that to increase the sidewalk is. But it's that decision point that people 16 probability of compliance with a warning, a warning 16 need to be warned about the hazard of the cliff if in 17 17 should explicitly describe the consequences of failing fact there's a need to warn about the hazard of the 18 18 to heed the warning? 19 19 A. Again, the instruction and consequence Q. You are highly trained in human factors; 20 true? 20 statements are not needed if they are - if they are 21 A. Yes. 21 redundant with other information that's in the 22 22 Q. You're familiar with basic precepts, 23 research and principles of human factors? 23 Q. Do you agree with the statement that people 24 A. Ves. 24 are less likely to understand or comply with a hazard 25 Q. Does this sign comply with basic research 25 if they do not know what it is? Page 226 Page 228 1 and principles of human factors as to what constitutes A. Yeah, that's certainly true. 1 2 2 an effective warning with respect to the items that it Q. Do you agree with the statement that to increase the probability of compliance with a warning, 3 3 warnings should provide brief and explicit 4 A. Yes, as I said in my report. 4 5 5 instructions on how to comply? Q. It does. 6 6 A. Yes. A. If the information is not already provided, 7 7 Q. Notwithstanding the fact that it does not then a brief and explicit instruction statement is 8 comply with ANSI; correct? 8 necessary. 9 9 A. Well, as I said, it complies with an older THE WITNESS: And I'm going to get some 10 10 version of ANSI Z535, and the differences between the water. 11 pre-2002 and the 2011 are insignificant formatting 11 (Discussion off the stenographic 12 issues and not something that would significantly 12 record.) 13 BY MR. SIEFF: 13 affect the effectiveness of the sign. 14 Q. And notwithstanding the fact that it does 14 Q. Do you agree that in an area where drowning not contain explicit warnings and instructions on how 15 is a hazard, that the action warning of "caution" is 15 16 appropriate? 16 to avoid the warnings, or avoid the hazard? 17 17 A. I'm sorry. Ask that again. A. Well as I said in my report, there's 18 18 research that indicates that redundant information can Q. Sure. 19 In an area where the hazard of drowning is 19 be omitted from a warning without decreasing --20 without substantially decreasing the effectiveness of 20 present, do you agree that the action word of 21 the warning. So in this case, you know, an explicit 21 "caution" is appropriate, or should it be something 22 22 warning might be "stay off the rocks," no -- and I stronger? 23 23 guess "no swimming in turbulent water." They both A. Yes, it should be something stronger. imply that there's a drowning hazard based -- just 24 24 "Danger" would be a better signal word here than 25 25 based on the pictorials. You don't need an explicit "caution."

Page 229 Page 231 A. Yes. 1 Q. All right. So you do agree that at least as 1 2 2 Q. The first tier of the safety hierarchy is to far as the signal word, you are critical of the use of 3 design out a hazard; correct? 3 the term "caution." A. Yes. 4 4 A. Yes. "Danger" would be a much better word. 5 Q. The next one's to guard against a hazard; 5 Q. And you are critical of the coloring on this 6 sign; are you not? 6 correct? 7 7 A. Yes. A. Well if -- if -- if the signal word were Q. And the third and the least effective is to 8 "danger" and we wanted to be -- to comply with Z535, 8 9 then the background for the signal word would be red, 9 warn against a hazard; correct? 10 A. Yes. 10 and red is -- more readily denotes or connotes hazard Q. In this instance I think it would -- you 11 11 than yellow. would agree with me that it'd be very difficult to 12 Q. You still do research and writing and things 12 design out the hazard of the rushing water, the rocks 13 like that and some work outside of the litigation 13 14 field. Have you ever, in your career, recommended to 14 and the foam. 15 A. Yes. 15 a client use of a non-ANSI-compliant warning or 16 Q. Let's talk about guarding against it. Are 16 caution sign? 17 17 you aware of anything that would have prevented the A. No. city from using temporary fencing in the area where 18 Q. Would you ever recommend to a client use of 18 19 Maggie fell during high foam season? 19 a non-ANSI-compliant sign? 20 20 A. No. A. No. 21 Q. Are you aware of anything that would have 21 Q. Have you done any testing to determine 22 prevented the city from utilizing something along the 22 whether or not the warning sign at issue that's in 23 lines of LED lighting like you might see on a road 23 front of you has achieved compliance or noncompliance? 24 warning of road construction, in the area where Maggie 24 If you understand my question? A. Yes, and I've not done any study to evaluate 25 fell during high flood season? 25 Page 230 Page 232 that, but as I describe in my report, it has the 1 A. Am I aware of anything that might prevent 1 2 effectiveness -- it has the components of an effective 2 them from doing that? 3 Q. Yeah. 3 warning, and most likely would be noticed, read, 4 A. No. They can do whatever they want, so. 4 understood and followed. 5 Q. I'm just asking you if you are aware of 5 Q. And you -anything that prevented them. 6 6 So you believe that it's an effective 7 A. Well -- and placing warnings, and fencing, 7 warning sign? 8 barricades and, you know, a variable messages sign 8 A. Yes. which is a warning, you have to take into a number of 9 9 Q. Achieving compliance? 10 A. Well you rarely get a hundred percent 10 factors. And yes, you could put variable messaging 11 signs up all over the park if you wanted to. I don't 11 compliance, so it's, you know --12 think it would be a very pleasant place to visit. So 12 MR. SIEFF: Can you mark that for me? A. - the research literature would -- you 13 if I were designing this, I would not recommend 1.3 14 putting up variable messaging signs in this park. 14 know, shows, you know, sometimes you get a hundred Q. Knowing that we've had a number of drownings 15 15 percent compliance with a good sign, and sometimes 16 at least alleged to have been caused due to the maybe more like 60 percent. So as the -- you know, 16 17 there are a number of factors that go into whether 17 presence of high foam during the foam runoff, the 18 spring runoff, do you think it would be prudent to do 18 someone will follow a sign or not. Formatting is just 19 -- to take any other action of any type or kind one of those factors in the Z535 standard, and this 19 relative to the accumulation of foam at Falls Park? 20 20 standard just addresses formatting issues, but this 21 Whether it be additional warnings, or barricades, or 21 component -- I'm sorry. This warning sign has guarding, or an Observation Tower or deck or anything components of an effective sign that could achieve, 22 22 23 23 you know, significant amounts of compliance. 24 Q. Okay. You're familiar with the safety 24 A. As I've said multiple times, I don't 25 consider the foam to be a hazard that's independent of 25 hierarchy.

- the natural hazards along and in the river.
- 2 Consequently, I don't believe that warnings are
- 3 necessary because this is a readily apparent set of
- 4 hazards, and -- and warnings aren't required in that
- 5 situation. It's not clear to me that -- well yeah.
- 6 So it's not clear to me that that foam poses a hazard
- 7 independently of those natural hazards, and -- but,
- 8 because there's now two incidents which rightly or
- 9 wrongly have been attributed to foam, you know, then
- from the city's standpoint as a you know, at the 10
- 11 very least as a public-relations measure, then
- 12 something should be done to deal with the foam. So if
- 13 I were to ask -- asked to be --

14 If I were asked to design some other safety 15 feature having to do with warning or barricading about 16 the foam, then yes, maybe temporary fencing is a good idea; yes, maybe explicitly warning about this foam

- 17 18 that can look like snow, but not because I see that
- 19 it's a real hazard, but more because it's a public
- 20 perception issue.
- 21 Q. You did testify earlier that the foam was an
- 22 open and obvious hazard.
- 23 A. Yes.
- 24 Q. Isn't it true that from time to time it's
- 25 prudent to provide an additional warning of an open

pile of gravel here, too. I would surround this whole

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- 2 thing with orange cones, but I would use 42-inch
- 3 delineators instead. And since there's probably
- 4 nighttime driving in this area, I would make sure that
- 5 the delineators had reflective bands at the top. So I
- 6 don't know if that answers your question.
- 7 Q. It does.
 - A. I think they did an inadequate job.
- 9 Q. Okay.

8

- 10 A. The reason for warning about this pile of
- 11 dirt is -- is this is a structured environment, it's
- 12 an urban environment, there's expectations of clear
- 13 roadways, and now you have violated those expectations
- 14 by leaving a big lump of dirt in the way. And so
- 15 since it takes longer for people to notice things that
- 16 are unexpected, then you really need to call this out
- 17 in some way so that people don't run into it or tip
- 18 their vehicle because they ran into it, and so, yes,
- 19 this pile of dirt and gravel needs to be warned about
- 20 because it's an urban environment, it appears to be a
- 21 public street, there is the expectation that there
- 22 will be no obstacles in the roadway, and you need to
- 23 put better warnings around this thing.
- 24 Q. Okay. You testified a little bit ago that
 - you believe that the warning -- the sign which is in

Page 234

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1 front of you, I don't remember the exhibit number.

Can you tell me what it is, please?

A. 19. Fischer 19.

4 Q. Fischer 19, is effective.

(Discussion off the stenographic record.)

6 (Nemire Exhibit 4 marked for

identification.)

BY MR. SIEFF:

9 Q. I'm going to show you an email authored by

10 Mr. Michael Hall, of the City of Sioux Falls, on

11 August 26, 2018, after Maggie's death, sent to Doug

12 Kirkus, Don Kearney and Karen Leonard, who I'll

13 represent my belief that they're all with the City of

14 Sioux Falls. He states, quote, a friend sent me a

series of photos from Falls Park yesterday...I'm just 15

16 sending one to illustrate what we have all recognized

for a long time...risky behavior occurs on a daily 17

18 basis at Falls Park. He said the warnings signs were

19 clearly visible by those choosing to ignore them.

20 But I want to ask you a question. Given the 21 fact that these people in this photograph apparently

22 had warning signs visible to them, based on your 23 looking at that photograph would you continue to hold 24 the opinion that those warning signs are effective in

obtaining compliance?

and obvious hazard such as an orange cone or something

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17

3 A. I'm -- I guess I'm having trouble following

- 4 your question. 5 Q. Can things like orange cones help alert
- 6 individuals to the presence of a hazard?
- 7 A. Yes. They can, yes.
- 8 Q. Even a hazard that might be otherwise
- 9 readily apparent to them?
 - A. I don't know that that would be true.
- 11 O. Okay.
- 12 (Discussion off the stenographic record.)
- 13 (Nemire Exhibit 3 marked for
- 14 identification.)
- BY MR. SIEFF: 15
- 16 Q. Showing you a photograph, sir, Exhibit 3,
 - that I myself took on Kenwood Parkway in Minneapolis, Minnesota about one week ago. Can you -- It shows a
- 18 19 large pile of dirt in the road where there's obviously
- 20 some construction going on, and an orange cone. 21 Can you -- Do you have any thoughts or an
- 22 opinion on why they might put an orange cone in front 23 of that dirt?
- 24 A. Well if I were to do it I would recommend that they surround -- it looks like maybe there's a 25

	Page 237		Page 239
1	A. Well as I said earlier, there's a lot of	1	Q. All right.
2	different reasons why someone may not follow a warning	2	MR. SIEFF: That's all the questions I
3	sign. Typically the you have a warning sign, and	3	have.
4	if you measure the noticeability of the sign in terms	4	A. It shows that some people will not comply
5	of whether somebody would notice it, I'll just give	5	with the signs.
6	some examples. You might have 90 percent of people	6	MR. SIEFF: That's all the questions I
7	saving that they would notice the sign or	7	have. Thank you.
8	demonstrating that they noticed the sign; you might	8	MR. MOORE: We'll read and sign.
9	have 80 percent of people who who actually read the	9	THE REPORTER: Thank you.
10	sign; then you might have 70 percent of the people who	10	Off the record.
11	actually understand what the sign says; and then you	11	(Deposition concluded at 3:19 p.m.)
12	might have 60 percent of the people who actually	12	(Deposition concluded at 3.19 p.m.)
13	follow the sign. So there's research has shown	13	
14	that in general there's far fewer people follow the	14	
	-	15	
15 16	sign that notice it. Then there's other reasons for people not following the sign, such as the cost of	16	
17	compliance, which means that if I want to have a good	17	
18	time on the river and you know, I'm I'm going to	18	
19	do that regardless of what the warning says, it costs	19	
20	me too much, in this case it costs me too much fun.	20	
21	you know, to comply with the warning sign so I'm not	21	
22	•	22	
	going to follow this warning.	23	
23	So it does not surprise me that people, they	24	
24	might see the sign and still go into the river. It	25	
25	happens. It would happen if you had fencing. You	25	
	Page 238		Page 240
1	still have you know, if you put up the 42-inch	1	CERTIFICATE
2	fencing that Mr. McCord recommends you will still have	2	I, Debby J. Campeau, hereby certify that I
3	probably most of these same people hopping the fence	3	am qualified as a verbatim shorthand reporter; that I
4	so they can go play in the river.	4	took in stenographic shorthand the testimony of
5	Q. That's pure speculation; isn't it, sir?	5	KENNETH NEMIRE, Ph.D., CPE, at the time and place
6	A. No, it isn't.	6	aforesaid; and that the foregoing transcript
7	Q. Have you ever designed a park?	7	consisting of 239 pages is a true and correct, full
8	A. I have not.	8	and complete transcription of said shorthand notes,
9	Q. You ever read the rules or the guidelines of	9	to the best of my ability.
10	the National Park Service with respect	10	Dated at Lino Lakes, Minnesota, this 26th
11	A. I don't believe so.	11	day of August, 2019.
12	Q to guarding or barricades?	12	
13	A. I don't believe so.	13	
14	Q. Do you think they have more knowledge and	14	
15	experience on what's appropriate in a park in terms of	15	DEBBY J. CAMPEAU
10	guarding and barricades than you do?	16	Notary Public
16	guarding and particades than you do:		
	A. Most likely.	17	
16		17 18	
16 17	A. Most likely.	i	
16 17 18	A. Most likely.Q. The same would be true for the USDA Forest	18	
16 17 18 19	A. Most likely. Q. The same would be true for the USDA Forest Service; wouldn't it?	18 19	
16 17 18 19 20	A. Most likely.Q. The same would be true for the USDA ForestService; wouldn't it?A. Most likely.	18 19 20	
16 17 18 19 20 21	 A. Most likely. Q. The same would be true for the USDA Forest Service; wouldn't it? A. Most likely. Q. Okay. The photograph aptly illustrates the 	18 19 20 21	
16 17 18 19 20 21	 A. Most likely. Q. The same would be true for the USDA Forest Service; wouldn't it? A. Most likely. Q. Okay. The photograph aptly illustrates the ineffectiveness of the warning signs that are in place 	18 19 20 21 22	

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SIGNATURE PAGE	-		
I, KENNETH NEMIRE, Ph.D., CPE,, the de	nopent		
hereby certify that I have read the foregoing	ponent,		
transcript, consisting of 239 pages, and that said	i i		
transcript is a true and correct, full and complete	·		
transcription of my deposition, except per the			
attached corrections, if any.			
PAGE LINE CHANGE/REASON FOR CHA	NGE		
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